

May 5, 2005

Ref: 04-220803-003

Ms. Delrae Erickson  
Exchange Bank  
444 Aviation Boulevard  
Santa Rosa, CA 95403

**Re: Annual Groundwater Monitoring Report Including First Quarter 2005, Former Exchange Bank, 330 Sebastopol Road, Santa Rosa, California, NCRWQCB Case No. 1TSO089**

Dear Ms. Erickson:

This report presents Winzler & Kelly Consulting Engineers' (Winzler & Kelly's) results of groundwater monitoring and sampling activities performed on March 22 and 24, 2005, at the Former Exchange Bank (site) located at 330 Sebastopol Road, Santa Rosa, California (Figures 1 and 2) and summarizes and evaluates the data collected from the four quarterly monitoring events in year 2004.

#### **1<sup>ST</sup> QUARTER 2005 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES**

The Site-Specific Sampling Procedures, provided in Appendix A, describe in detail all of the monitoring and sampling activities that were performed at the site on March 22 and 24, 2005. A brief summary of these activities is also provided below.

#### **FIELD ACTIVITIES**

***Personnel Present:*** Winzler & Kelly's Environmental Engineer, Pon Xayasaeng, performed the groundwater monitoring and sampling activities.

***Dissolved Oxygen:*** On March 22, 2005, a calibrated dissolved oxygen (DO) meter was used to measure the concentrations of DO in monitoring wells M-1 through M-4, M-6, and M-7. The DO readings were obtained while the biosparge system was operating.

***Biosparge Shutdown:*** Following DO measurements on March 22, 2005, the biosparge system was shutdown to allow groundwater levels within the monitoring wells to equilibrate.

***Depth-to-Water:*** Groundwater flow direction was monitored on March 24, 2005, by measuring the depth-to-groundwater in monitoring wells M-1 through M-4, M-6, and M-7 using an electronic water level meter.

***Purging:***

Prior to sampling, an electronic 12-volt 1.5-inch submersible pump was used to purge each of the monitoring wells sampled until the indicator parameters of pH, conductivity, and temperature had stabilized.

***Monitoring Well Sampling:***

Groundwater samples were collected from monitoring wells M-1 through M-4, M-6, and M-7. New disposable bailers were used to collect and transfer the groundwater from each monitoring well into the appropriate laboratory-supplied, certified clean sample containers.

***Chemical Analysis:***

Analytical Sciences Laboratory (Analytical Sciences) of Petaluma, California (a California-certified laboratory) analyzed groundwater samples for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 8015M, and for benzene, toluene, ethyl benzene, and total xylenes (BTEX), oxygenated fuel additives, and lead scavengers by EPA Method 8260B. In addition, Analytical Sciences analyzed groundwater samples collected from monitoring wells M-2, M-3, M-6, and M-7 for phosphate and nitrate by EPA 300 (IC).

**FIRST QUARTER 2005 GROUNDWATER MONITORING RESULTS**

The groundwater elevation contours and flow direction at the site on March 24, 2005, are depicted on Figure 3. Figure 3 illustrates the groundwater flow direction at the site was toward the northwest, at an approximate gradient of 0.01 ft/ft.

On March 22, 2005, DO concentrations were measured in each well while the biosparge system was operating. Concentrations of DO ranged from 0.89 (MW-7) to 10.46 (MW-1). DO concentrations ranged from 0.70 to 11.07 mg/L throughout 2004. Table 3 summarizes the results.

During groundwater purging activities, the parameters of pH, conductivity, and temperature were monitored and recorded. A summary of these indicator parameters is provided in Table 3. Table 3 also includes the laboratory results of the nitrate, phosphate, and pH sampling for monitoring wells M-2, M-3, M-6, and M-7. Phosphate concentrations in all the monitoring wells have been historically below laboratory's reportable detection limits (RDLs). Nitrate concentrations have been above the maximum contaminant level (MCL) of 45 mg/L in monitoring wells M-6 and M-7. The measured conductivity in these two wells is also higher than the other on-site wells.

Laboratory analysis of groundwater samples collected during the March 24, 2005 monitoring and sampling event did not quantify any constituents of concern (COCs) above the laboratory's RDLs in all the monitoring wells with the exception of monitoring well M-1. Monitoring well M-1 had concentrations of TPH-G and total xylenes above the laboratory's RDLs at 130 and 4.7 µg/L, respectively. Table 4 summarizes the current and historical analytical results of groundwater samples. Figure 4 illustrates the concentrations of TPH-G, benzene, and methyl tert-butyl ether (MTBE) in monitoring wells. This rise is consistent with past sampling events on this well, when water levels rise, higher levels of COCs are detected.



***Purging:***

Prior to sampling, an electronic 12-volt 1.5-inch submersible pump was used to purge each of the monitoring wells sampled until the indicator parameters of pH, conductivity, and temperature had stabilized.

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The laboratory QA/QC included the use of method blanks to exclude false-positive analyses and the use of laboratory control samples to evaluate the percentage recovery of known analyte spikes. The recovery percentages for all of the sample analytes were within acceptable ranges. The complete laboratory report, QA/QC data, and the chain-of-custody form for the groundwater samples are included in Appendix B.

#### **ANNUAL SUMMARY**

The groundwater flow direction at the site has been generally towards the northwest for the 2004 year with the exception of the March 31, 2004 monitoring event, which groundwater flow was towards the north-northeast. Tables 1 and 2 summarize the groundwater elevation data and direction and gradient of groundwater flow at the site, respectively.

Consistent with historical sampling results, the highest concentrations of COCs detected throughout the 2004 year were in groundwater samples collected from M-6. Throughout the 2004 year, laboratory analysis indicated a decrease in contaminant concentrations in those areas where biosparging has been applied, to a non-detect for all constituents of concern. This is the first event where contaminants were not detected in this well since installation in 1997.

Graphs were prepared to depict the groundwater elevation and concentrations of TPH-G over time in monitoring wells M-1 and M-6. The graphs show the effectiveness of the biosparge system in decreasing concentrations of COCs in monitoring wells located within or near the radius of influence of existing biosparge points. Graphs 1 and 2 illustrate the decreasing trend of TPH-G concentrations since the installation of the biosparge system and the installation of sparge points SP-9, SP-10, and SP-11.

#### **GEOTRACKER DATA ENTRY**

As required by Assembly Bill AB2886, Winzler & Kelly has submitted the groundwater well measurement file for the March 24, 2005 monitoring event to the GeoTracker database. A copy of the submittal verifications is included in Appendix C. Winzler & Kelly will submit the analytical data for the March 24, 2005 monitoring event to the GeoTracker database upon receipt of the EDF report from Analytical Sciences.

#### **BIOSPARGE SYSTEM**

The pressure (psi) and flow rate (SCFM) to each biosparge point of the biosparge remediation system is checked and recorded during twice monthly operation and maintenance inspections. Operation data is provided in Table 5. Currently, the biosparge points are set to operate at a maximum of 25 psi and 2.0 SCFM. The maximum pressure setting has been established to prevent well seal blowout. The pressure at the wellhead during operation is not measured. The system is programmed to operate one biosparge point at a time for a 20 minute duration before switching to the next biosparge point. A process logic controller is programmed to start the system at 8:00 AM and shut off the system at 6:00 PM in order to minimize the noise disturbance to the residents at the adjacent properties.



WINZLER & KELLY  
CONSULTING ENGINEERS

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Currently, sparge points SP-5 through SP-11 are in operation (Figure 5). With the installation of sparge points SP-9, SP-10, and SP-11, the area of monitoring well M-6 has seen an overall increase in DO concentrations and a downward trend of COCs. The biosparge system has been running for a total of 4,444.5 hours and has been running as designed.

#### CONCLUSIONS

DO concentrations at the site are related to the effective radius of influence of sparge points and bioactivity. Biosparging in the area of monitoring well M-6 has increased the DO and enhanced bacterial metabolism of the petroleum-related hydrocarbons. Analytical results for M-6 show the concentration of TPH-G at the lowest since the installation of the biosparge system. Lab results indicate an overall decrease in COCs for all the wells. Further monitoring and sampling will continue to ensure continual decrease of COCs. Table 6 outlines the sampling schedule.

Nitrate levels in groundwater collected from M-6 and M-7 continue to be consistently detected. Nutrients are not being injected at this site and therefore the Nitrate is not associated with the remediation program at this site. Also, the conductivity in these two wells is consistently higher than the other on-site wells.

#### RECOMMENDATIONS

We expect the system to run one to two more quarters to verify that petroleum hydrocarbons are successfully being removed and will then consider a verification period.

Winzler & Kelly will continue to perform quarterly groundwater monitoring and sampling activities at the site. The second quarter 2005 monitoring and sampling event is scheduled for June 2005.

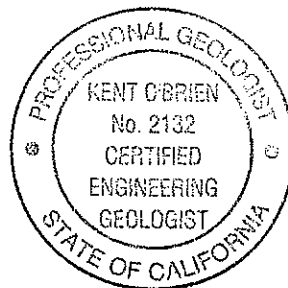
Should you have any questions or comments regarding this project, please contact Elizabeth Cargay, Project Manager, at (707) 523-1010.

Sincerely,

WINZLER & KELLY

Porit Xayasaeng  
Environmental Engineer

Kent O'Brien, RG, CEG  
Senior Project Geologist



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Attachments

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Figures:

Figure 1 – Location Map

Figure 2 – Site Plan

Figure 3 – Groundwater Contour Map

Figure 4 – Petroleum Hydrocarbon Concentrations in Groundwater

Figure 5 – Biosparge Point Locations

Tables:

Table 1 – Water Level Data and Well Construction Detail

Table 2 – Groundwater Gradient and Flow Direction

Table 3 – DO, Nutrients, and Indicator Parameters

Table 4 – Analytical Results of Groundwater Monitoring Well Samples

Table 5 – Operation and Maintenance Data

Table 6 – Monitoring Well Sampling Schedule

Graphs:

Graph 1 – TPH-G Concentrations vs. Groundwater Elevations Over Time in M-1

Graph 2 – TPH-G Concentrations vs. Groundwater Elevations Over Time in M-6

Appendices:

Appendix A – Site-Specific Sampling Procedures

Appendix B – Analytical Laboratory Report

Appendix C – GeoTracker Upload Verification

c: Mr. Bill Erdei, North Coast Regional Water Quality Control Board, 5550 Skylane Boulevard,  
Suite A, Santa Rosa, CA 95403

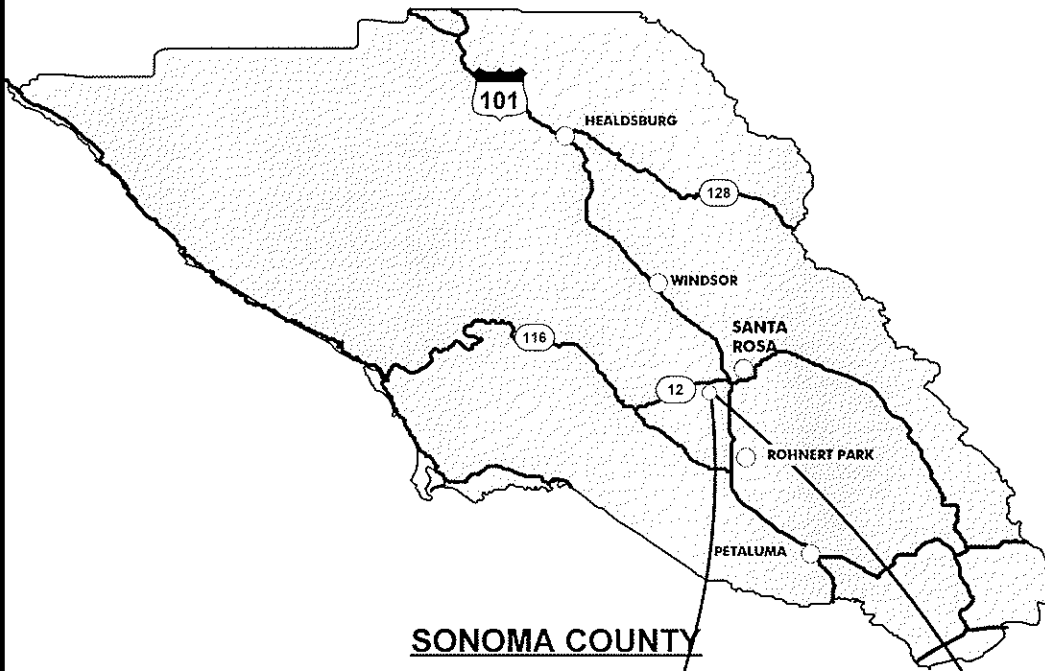
Mr. Carl Merner, Merner Land Company, P.O. Box 3468, Santa Rosa, CA 95402

Mr. William Manly, 2750 Corby Avenue, Santa Rosa, CA 95407

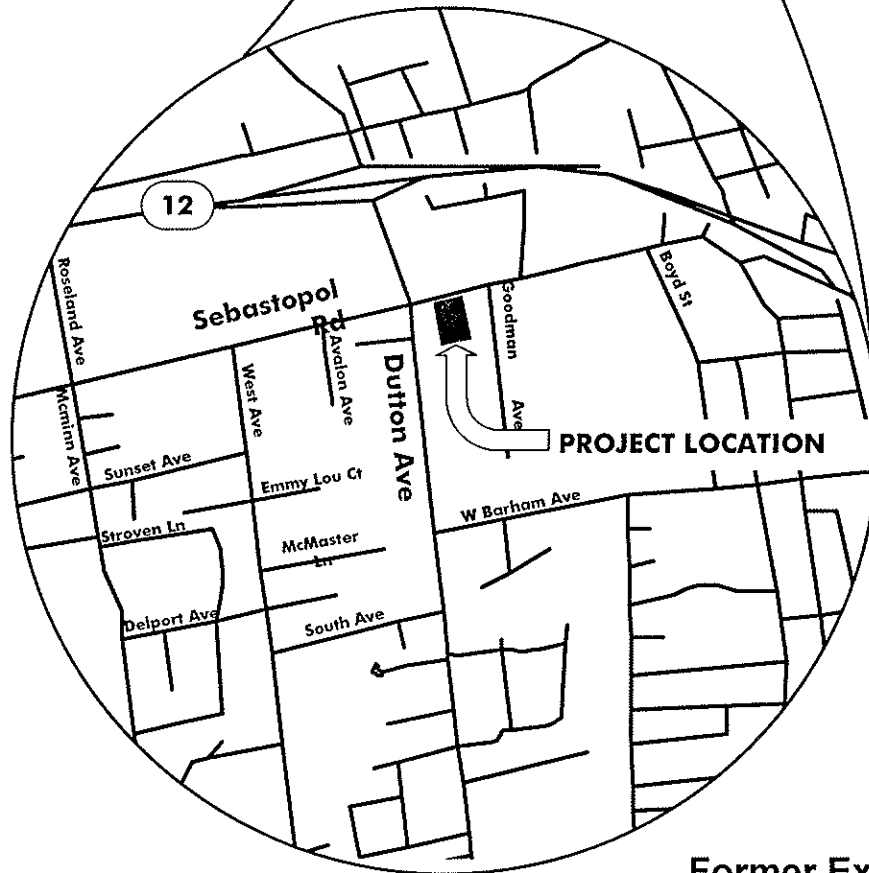




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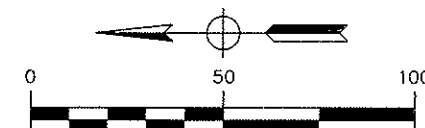


**LOCATION MAP**

**Former Exchange Bank  
330 Sebastopol Road  
Santa Rosa, CA**



\*DW-437 ●



# LEGEND

S-1 # BIOSPARGE POINT LOCATIONS

M-1 ◆ MONITORING WELL LOCATIONS

DW-674 ● DOMESTIC WELL LOCATION INDICATING ADDRESS ON DUTTON AVENUE

UMW1 ◆ UNOCAL MONITORING WELL LOCATIONS

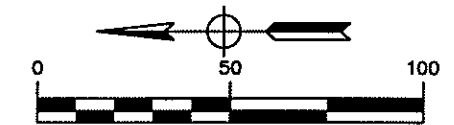
\*NOTE:  
THE LOCATION OF DW-437 IS APPROXIMATE. NOT A PRODUCT OF SURVEY



FORMER EXCHANGE BANK  
SITE PLAN

FIGURE 2

\*DW-437●



# LEGEND

M-1 ◆ MONITORING WELL LOCATIONS

DW-674 ● DOMESTIC WELL LOCATION INDICATING ADDRESS ON DUTTON AVENUE

UMW1 ◆ UNOCAL MONITORING WELL LOCATIONS

(139.12) GROUNDWATER ELEVATION  
— GROUNDWATER CONTOUR

— ? DASHED WHERE APPROX. QUERIED WHERE UNKNOWN

\*NOTE:  
THE LOCATION OF DW-437 IS APPROXIMATE, NOT A PRODUCT OF SURVEY.

SEBASTOPOL ROAD

DUTTON AVE.

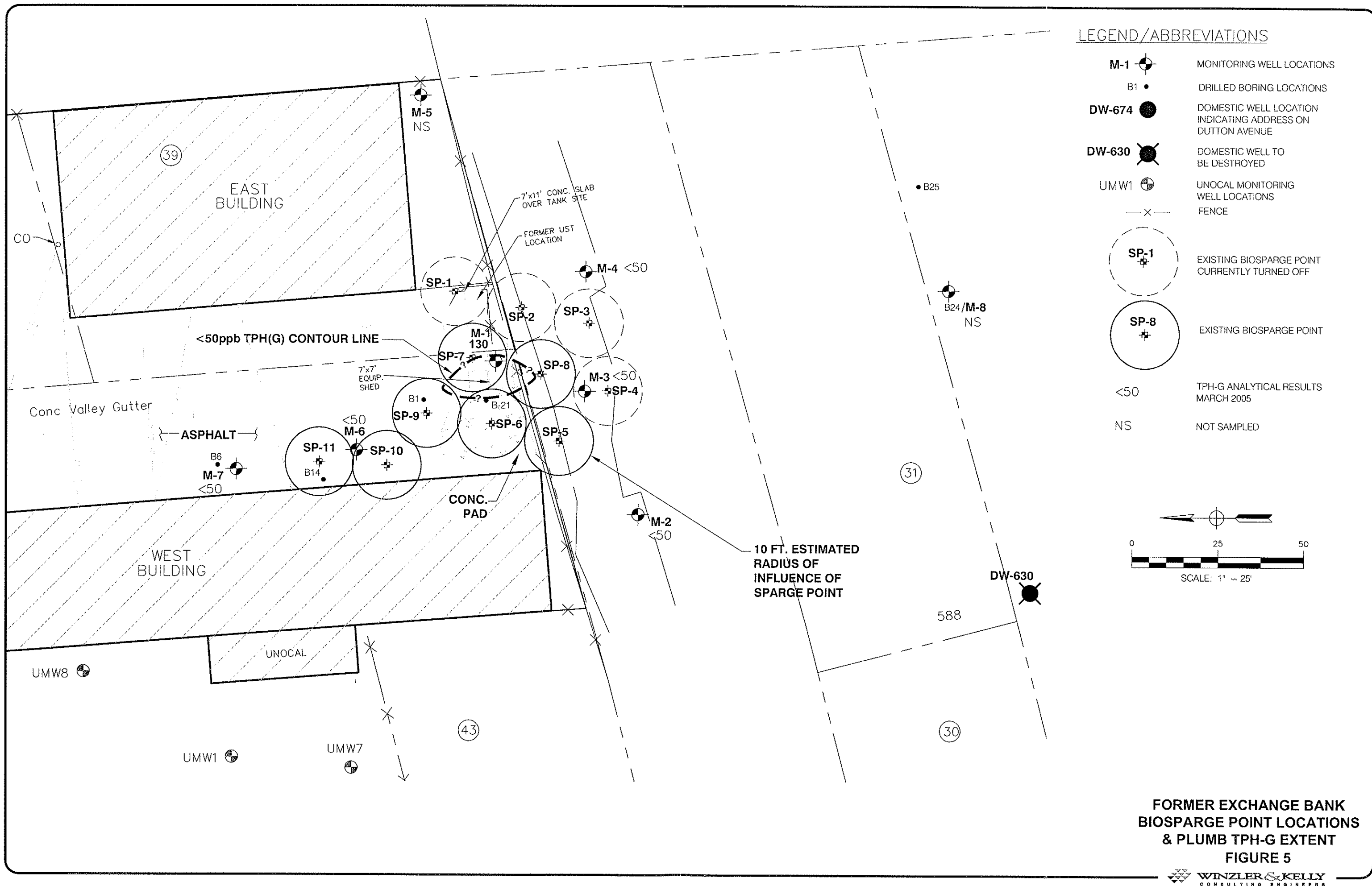
GENERAL  
GROUNDWATER  
FLOW DIRECTION

FORMER EXCHANGE BANK  
GROUNDWATER CONTOUR MAP  
MARCH 24, 2005

FIGURE 3



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**Table 1. Water Level Data and Well Construction Detail**

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
M-1	12/29/1992	137.23	7.73	144.96	NM	4" Well 10 - 25 0.020"	9 - 25 #3 sand	0 - 9
	1/27/1993	139.26	5.70					
	12/11/1993	134.67	10.29					
	5/13/1994	135.31	9.65					
	9/17/1994	131.04	13.92					
	10/26/1994	130.29	14.67					
	12/17/1994	136.09	8.87					
	3/18/1995	140.07	4.89					
	6/24/1995	135.37	9.59					
	9/23/1995	132.38	12.58					
	12/16/1995	135.74	9.22					
	3/23/1996	137.68	7.28					
	6/20/1996	135.45	9.51					
	3/12/1997	136.49	8.47					
	6/26/1997	133.65	11.31					
	12/18/1997	137.10	7.86					
	1/29/1998	139.71	5.25					
	2/27/1998	141.27	3.69					
	3/18/1998	139.41	5.55					
	4/9/1998	138.54	6.42					
	5/29/1998	139.15	5.81					
	6/18/1998	136.38	8.58					
	7/22/1998	135.01	9.95					
	8/26/1998	133.83	11.13					
	9/16/1998	133.16	11.80					
	10/20/1998	132.48	12.48					
	11/19/1998	133.39	11.57					
	12/30/1998	135.19	9.77					
	3/18/1999	138.83	6.13					
	6/16/1999	134.97	9.99					
	9/23/1999	131.96	13.00					
	12/29/1999	132.96	12.00					
	8/31/2000	132.49	12.47					
	10/17/2000	System start-up on 10-17-00						
	10/25/2002	131.38	13.58					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.39	11.57					
	3/15/2001	137.93	7.03					
	6/14/2001	133.71	11.25					
	9/18/2001	130.94	14.02					
	11/13/2001	133.23	11.73					
	12/11/2001	138.04	6.92					
	1/15/2002	140.14	4.82					
	2/12/2002	137.65	7.31					
	3/12/2002	138.32	6.64					
	4/16/2002	136.17	8.79					
	5/14/2002	135.26	9.7					
	6/11/2002	134.47	10.49					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	132.89	12.07					
	8/9/2002	NA	NA					
	8/13/2002	132.21	12.75					
	12/12/2002	133.65	11.31					
	3/12/2003	137.01	7.95					
	6/11/2003	135.66	9.30					
	9/10/2003	132.51	12.45					
	1/20/2004 *	138.46	6.50					
	3/31/2004	137.25	7.71					
	7/16/2004	133.01	11.95					
	9/15/2004	131.51	13.45					
	12/14/2004	135.16	9.80					
	3/24/2005	139.12	5.84					

**Table 1. Water Level Data and Well Construction Detail**

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval	
M-2	5/13/1994	135.23	8.10	143.33	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4	
	9/17/1994	132.16	11.17						
	9/17/1994	132.16	11.17						
	12/17/1994	135.93	7.40						
	6/24/1995	135.27	8.06						
	9/23/1995	132.44	10.89						
	12/16/1995	135.37	7.96						
	3/23/1996	137.40	5.93						
	6/20/1996	135.36	7.97						
	3/12/1997	136.29	7.04						
	6/26/1997	133.60	9.73						
	12/17/1997	136.88	6.45						
	1/29/1998	139.11	4.22						
	2/27/1998	140.79	2.54						
	3/17/1998	138.93	4.40						
	4/9/1998	138.12	5.21						
	5/29/1998	137.04	6.29						
	6/19/1998	136.22	7.11						
	7/22/1998	134.97	8.36						
	8/26/1998	133.75	9.58						
	9/16/1998	133.13	10.20						
	10/20/1998	132.47	10.86						
	11/19/1998	133.26	10.07						
	12/30/1998	135.13	8.20						
	3/18/1999	138.39	4.94						
	6/16/1999	134.89	8.44						
	9/23/1999	131.96	11.37						
	12/23/1999	132.95	10.38						
	8/31/2000	132.47	10.86						
	10/17/2000	System start-up							
	10/25/2000	131.49	11.84						
	11/13/2000	System down due to compressor failure							
	12/6/2000	System restart							
	12/20/2000	133.21	10.12						
	3/15/2001	137.49	5.84						
	6/14/2001	133.71	9.62						
	9/18/2001	131.08	12.25						
	11/13/2001	132.21	11.12						
	12/11/2001	137.73	5.60						
	1/15/2002	139.56	3.77						
	2/12/2002	137.16	6.17						
	3/12/2002	137.70	5.63						
	4/16/2002	136.02	7.31						
	5/14/2002	135.17	8.16						
	6/11/2002	134.44	8.89						
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.							
	7/16/2002	133.03	10.30						
	8/13/2002	132.53	10.80						
	12/12/2002	132.35	10.98						
	3/12/2003	136.68	6.65						
	6/11/2003	135.58	7.75						
	9/10/2003	132.68	10.65						
	1/20/2004 *	138.05	5.28						
	3/31/2004	136.84	6.49						
	7/16/2004	133.04	10.29						
	9/15/2004	131.63	11.70						
	12/14/2004	134.87	8.46						
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M-3	2/27/1997	---	---	143.46	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4
	3/13/1997	136.33	7.13					
	6/27/1997	133.60	9.86					
	12/18/1997	136.92	6.54					
	1/29/1998	139.58	3.88					
	2/27/1998	140.93	2.53					
	3/17/1998	139.03	4.43					
	4/9/1998	138.20	5.26					
	5/29/1998	137.34	6.12					
	6/18/1998	136.25	7.21					
	7/22/1998	134.96	8.50					
	8/26/1998	133.76	9.70					
	9/16/1998	133.12	10.34					
	10/20/1998	132.48	10.98					
	11/19/1998	133.27	10.19					
	12/30/1998	135.15	8.31					
	3/18/1999	138.48	4.98					
	6/16/1999	134.90	8.56					
	9/23/1999	131.96	11.50					
	12/23/1999	132.97	10.49					
	8/31/2000	132.48	10.98					
	10/17/2000	System start-up						
	10/25/2000	131.47	11.99					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.23	10.23					
	3/15/2001	137.54	5.92					
	6/14/2001	133.61	9.85					
	9/18/2001	131.04	12.42					
	11/13/2001	132.32	11.14					
	12/11/2001	137.75	5.71					
	1/15/2002	139.66	3.80					
	2/12/2002	137.21	6.25					
	3/12/2002	137.78	5.68					
	4/16/2002	136.03	7.43					
	5/14/2002	135.17	8.29					
	6/11/2002	134.43	9.03					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	133.02	10.44					
	8/13/2002	132.50	10.96					
	12/12/2002	132.41	11.05					
	3/12/2003	136.73	6.73					
	6/11/2003	135.58	7.88					
	9/10/2003	132.67	10.79					
	1/20/2004 *	138.14	5.32					
	3/31/2004	136.89	6.57					
7/16/2004	133.05	10.41						
9/15/2004	131.60	11.86						
12/14/2004	134.87	8.59						
3/24/2005	138.56	4.90						



**Table 1. Water Level Data and Well Construction Detail**

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M-4	3/12/1997	136.43	7.49	143.92	NM	2" Well 5 - 15 0.020"	#2/12 4 - 15	0 - 4
	6/27/1997	133.67	10.25					
	12/20/1997	137.01	6.91					
	1/29/1998	139.56	4.36					
	2/27/1998	141.11	2.81					
	3/18/1998	139.20	4.72					
	4/9/1998	138.36	5.56					
	5/29/1998	137.73	6.19					
	6/19/1998	136.35	7.57					
	7/22/1998	135.02	8.90					
	8/26/1998	133.84	10.08					
	9/16/1998	133.21	10.71					
	10/21/1998	132.58	11.34					
	11/19/1998	133.39	10.53					
	12/30/1998	135.22	8.70					
	3/18/1999	138.67	5.25					
	6/16/1999	134.98	8.94					
	9/23/1999	132.07	11.85					
	12/29/1999	133.07	10.85					
	8/31/2000	132.58	11.34					
	10/17/2000	System start-up on 10-17-00						
	10/25/2000	130.60	13.32					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.41	10.51					
	3/15/2001	137.77	6.15					
	6/14/2001	133.77	10.15					
	9/18/2001	131.22	12.70					
	11/13/2001	132.78	11.14					
	12/11/2001	137.91	6.01					
	1/15/2002	139.90	4.02					
	2/12/2002	137.52	6.40					
	3/12/2002	138.12	5.80					
	4/16/2002	136.21	7.71					
	5/14/2002	135.29	8.63					
	6/11/2002	134.51	9.41					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	133.13	10.79					
	8/13/2002	132.60	11.32					
	12/12/2002	132.91	11.01					
	3/12/2003	136.96	6.96					
	6/11/2003	135.69	8.23					
	9/10/2003	132.74	11.18					
	1/20/2004 *	138.37	5.55					
	3/31/2004	137.14	6.78					
	7/16/2004	133.16	10.76					
	9/15/2004	131.76	12.16					
	12/14/2004	135.09	8.83					
	3/24/2005	138.85	5.07					

**Table 1. Water Level Data and Well Construction Detail**

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval	
									feet
M-5	3/12/1997	136.60	8.26	144.86	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4	
	6/26/1997	133.75	11.11						
	12/17/1997	137.07	7.79						
	1/29/1998	139.90	4.96						
	2/27/1998	141.48	3.38						
	3/17/1998	139.44	5.42						
	4/9/1998	138.57	6.29						
	5/29/1998	137.27	7.59						
	6/18/1998	136.52	8.34						
	7/22/1998	135.14	9.72						
	8/26/1998	133.93	10.93						
	9/16/1998	133.31	11.55						
	10/20/1998	132.65	12.21						
	11/19/1998	133.42	11.44						
	12/30/1998	135.29	9.57						
	3/18/1999	138.89	5.97						
	6/16/1999	135.05	9.81						
	9/23/1999	132.18	12.68						
	12/23/1999	133.12	11.74						
	8/31/2000	132.66	12.20						
	10/17/2000	System start-up							
	10/25/2000	131.77	13.09						
	11/13/2000	System down due to compressor failure							
	12/6/2000	System restart							
	12/20/2000	133.40	11.46						
	3/15/2001	137.87	6.99						
	6/14/2001	133.84	11.02						
	9/18/2001	131.48	13.38						
	11/13/2001	132.84	12.02						
	12/11/2001	138.01	6.85						
	1/15/2002	140.10	4.76						
	2/12/2002	137.54	7.32						
	3/12/2002	138.03	6.83						
	4/16/2002	136.31	8.55						
	5/14/2002	135.36	9.50						
	6/11/2002	134.61	10.25						
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.							
	7/16/2002	133.23	11.63						
	8/13/2002	132.65	12.21						
	12/12/2002	132.73	12.13						
	3/12/2003	137.02	7.84						
	6/11/2003	135.83	9.03						
	9/10/2003	132.84	12.02						
	1/20/2004 *	138.46	6.40						
	3/31/2004	NM	NM						
	7/16/2004	133.25	11.61						
	9/15/2004	NM	NM						

**Table 1. Water Level Data and Well Construction Detail**

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
M-6	3/12/1997	136.79	7.89	144.68	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4
	6/26/1997	133.61	11.07					
	12/18/1997	136.97	7.71					
	1/29/1998	139.58	5.10					
	2/27/1998	141.27	3.41					
	3/18/1998	139.46	5.22					
	4/9/1998	138.57	6.11					
	5/29/1998	137.47	7.21					
	6/18/1998	136.47	8.21					
	7/22/1998	135.03	9.65					
	8/26/1998	133.79	10.89					
	9/16/1998	133.09	11.59					
	10/20/1998	131.41	13.27					
	11/19/1998	133.25	11.43					
	12/30/1998	135.13	9.55					
	3/18/1999	138.88	5.80					
	6/16/1999	134.96	9.72					
	9/23/1999	131.86	12.82					
	12/29/1999	132.80	11.88					
	8/31/2000	132.41	12.27					
	10/17/2000	System start-up						
	10/25/2000	131.36	13.32					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.15	11.53					
	3/15/2001	137.75	6.93					
	6/14/2001	133.60	11.08					
	9/18/2001	130.99	13.69					
	11/13/2001	132.34	12.34					
	12/11/2001	137.59	7.09					
	1/15/2002	140.08	4.60					
	2/12/2002	137.64	7.04					
	3/12/2002	137.93	6.75					
	4/16/2002	136.29	8.39					
	5/14/2002	135.26	9.42					
	6/11/2002	134.37	10.31					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	132.91	11.77					
	8/13/2002	132.15	12.53					
	12/12/2002	132.32	12.36					
	3/12/2003	137.10	7.58					
	6/11/2003	135.75	8.93					
	9/10/2003	132.45	12.23					
	1/20/2004 *	138.35	6.33					
	3/31/2004	137.35	7.33					
	7/16/2004	132.99	11.69					
	9/15/2004	131.45	13.23					
	12/14/2004	134.82	9.86					
	3/24/2005	138.82	5.86					

**Table 1. Water Level Data and Well Construction Detail**

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
M-7	3/12/1997	136.73	8.07	144.80	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4
	6/26/1997	133.55	11.25					
	12/17/1997	136.97	7.83					
	1/29/1998	139.42	5.38					
	2/27/1998	141.21	3.59					
	3/17/1998	139.42	5.38					
	4/9/1998	138.56	6.24					
	5/29/1998	137.42	7.38					
	6/18/1998	136.22	8.58					
	7/22/1998	135.00	9.80					
	8/26/1998	133.76	11.04					
	9/16/1998	133.07	11.73					
	10/20/1998	132.33	12.47					
	11/19/1998	133.20	11.60					
	12/30/1998	135.11	9.69					
	3/18/1999	138.86	5.94					
	6/16/1999	134.95	9.85					
	9/23/1999	131.79	13.01					
	12/23/1999	132.73	12.07					
	8/31/2000	132.34	12.46					
	10/17/2000	System start-up						
	10/25/2000	131.31	13.49					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.13	11.67					
	3/15/2001	137.72	7.08					
	6/14/2001	133.58	11.22					
	9/18/2001	130.98	13.82					
	11/13/2001	132.50	12.30					
	12/11/2001	137.56	7.24					
	1/15/2002	139.89	4.91					
	2/12/2002	137.65	7.15					
	3/12/2002	137.93	6.87					
	4/16/2002	136.30	8.50					
	5/14/2002	135.23	9.57					
	6/11/2002	134.33	10.47					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	132.86	11.94					
	8/13/2002	132.09	12.71					
	12/12/2002	132.27	12.53					
	3/12/2003	137.09	7.71					
	6/11/2003	135.73	9.07					
	9/10/2003	132.41	12.39					
	1/20/2004 *	138.26	6.54					
	3/31/2004	137.32	7.48					
	7/16/2004	132.95	11.85					
	9/15/2004	131.40	13.40					
	12/14/2004	134.85	9.95					
	3/24/2005	138.74	6.06					

**Table 1. Water Level Data and Well Construction Detail**

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
M-8	7/22/1998	135.08	7.73	142.81	NM	2" Well 3.75 - 18 0.020"	#2/12 3 - 18	0 - 3
	8/27/1998	133.88	8.93					
	9/16/1998	133.29	9.52					
	10/20/1998	132.62	10.19					
	11/19/1998	133.40	9.41					
	12/30/1998	135.30	7.51					
	3/18/1999	138.58	4.23					
	6/16/1999	135.02	7.79					
	9/23/1999	132.11	10.70					
	12/29/1999	133.11	9.70					
	8/31/2000	132.61	10.20					
	10/17/2000	System start-up						
	10/25/2000	131.65	11.16					
	12/20/2000	133.36	9.45					
	3/15/2001	137.60	5.21					
	4/23/2001**	1.74" (0.145 ft) cutoff the top-of-casing, so lid could be properly secured.		142.67				
		Well has not been resurveyed.						
	6/14/2001	133.78	8.89					
	9/18/2001	131.18	11.49					
	11/13/2001	132.19	10.48					
	12/11/2001	137.78	4.89					
	1/15/2002	139.58	3.09					
	2/12/2002	137.22	5.45					
	3/12/2002	137.82	4.85					
	4/16/2002	136.07	6.60					
	5/14/2002	135.28	7.39					
	6/11/2002	134.54	8.13					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	133.14	9.53					
	8/13/2002	132.65	10.02					
	12/12/2002	132.44	10.23					
	3/12/2003	136.75	5.92					
	6/11/2003	135.65	7.02					
	9/10/2003	132.84	9.83					
	1/20/2004	NM	NM					
	3/31/2004	NM	NM					
	7/16/2004	NM	NM					
	9/15/2004	NM	NM					

**Notes:**

\* = The depth-to-groundwater measurements collected on 1/20/04 were obtained while the biosparge system was operating.

\*\* = This table reflects the corrected groundwater elevations measured in MW-8 from 6/14/2001 to the present. The elevations are based on the adjusted TOC elevation that was a result of casing cutting on 4/23/2001.

NM = Not measured

**Table 2. Groundwater Gradient and Flow Direction**

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Date	Groundwater Gradient in ft/ft	Flow Direction from the Tank Area
6/25/1997	0.001	Northwest to Southwest
12/17/1998	0.003	Northwest to Southwest
1/29/1998	0.010	Northwest to Southwest
2/27/1998	0.011	Southwest
3/17/1998	0.014	Southwest to South-Southeast
4/4/1998	0.007	Southwest to South-Southeast
5/29/1998	0.011	Southwest and Northeast
6/18/1998	0.003	Southwest
7/22/1998	0.002	Southwest
8/26/1998	0.002	West to Southwest
9/16/1998	0.002	Northwest
10/20/1998	0.023	Northwest
11/20/1998	0.002	Northwest to Southwest
12/30/1998	0.002	Northwest to West
3/18/1999	0.006	Southwest to West
6/16/1999	0.002	Southwest to Northwest
9/23/1999	0.002	Northwest
12/23/1999	0.002	North 62° West
8/30/2000	0.002	North 71° West
10/25/2000	0.001	North 58° West
12/20/2000	0.002	North 75° West
3/15/2001	0.003	South 59° West
6/14/2001	0.002	North 73° West
9/18/2001	0.004	North 88° West
11/13/2001	0.005	North 62° West
12/11/2001	0.003	North 84° West
1/15/2002	0.004	South 45° West
2/12/2002	0.004	South 24° West
3/12/2002	0.003	South 62° West
4/16/2002	0.002	South 44° East
5/14/2002	0.001	South 87° East
6/11/2002	0.002	North 75° West
7/16/2002	0.003	North 71° West
8/13/2002	0.004	North 53° West
12/12/2002	0.004	West-Northwest
3/12/2003	0.005	West-Southwest
6/11/2003	0.004	West
9/10/2003	0.005	Northwest
3/31/2004	0.007	North-Northeast
7/16/2004	0.002	Northwest
9/15/2004	0.006	Northwest
12/14/2004	0.008	Northwest
3/24/2005	0.010	Northwest

**Table 3. DO, Nutrients, and Indicator Parameters**

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	Dissolved Oxygen	Phosphate	Nitrate as Nitrate	pH	Conductivity	Temperature
		mg/L				uS/cm	°F
M-1	4/23/2002	11.43	<5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.77	565	63.8
	8/12/2002	10.90	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.16	412	72.5
	12/11/2002	10.01	NA	NA	NA	NA	NA
	12/12/2002	NA	NA	NA	7.33	416	63.2
	3/11/2003	10.93	NA	NA	NA	NA	61.0
	3/12/2003	NA	NA	NA	7.5	376	61.7
	6/11/2003	11.20	NA	NA	7.69	385	61.2
	9/10/2003	NA	NA	NA	7.78	388	64.2
	1/20/2004	2.94	NA	NA	NA	NA	NA
	3/30/2004	12.83	NA	NA	NA	NA	NA
	3/31/2004	NA	NA	NA	7.10	399	59.9
	7/1/2004	11.07	NA	NA	NA	NA	NA
	7/16/2004	NA	NA	NA	7.37	436	63.9
	9/14-15/2004	8.57	NA	NA	7.92	408	64.9
12/13-14/2004	9.88	NA	NA	7.35	561	63.9	
3/22-24/2005	10.46	NA	NA	7.16	364	58.5	
M-2	4/23/2002	1.13	<2.5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.65	361	64.0
	8/12/2002	0.79	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	6.69	390	62.7
	12/11/2002	1.57	NA	NA	NA	NA	NA
	3/11/2003	2.08	NA	NA	NA	NA	59.7
	3/12/2003	NA	NA	NA	8.23	309	60.5
	6/11/2003	0.91	NA	NA	NA	NA	NA
	1/20/2004	2.16	NA	NA	NA	NA	NA
	3/30/2004	Well not accessible - car parked on top.					
	3/31/2004	NA	<1.0	9.3	6.55 / 6.83 *	367	60.3
	7/1/2004	0.78	NA	NA	NA	NA	NA
	7/16/2004	NA	<0.5	5.9	6.7/7.04 *	396	63.7
	9/14-15/2004	1.23	<2.0	11	6.73/6.83 *	509	65.3
	12/13-14/2004	0.93	<0.50	8.0	6.41/6.64 *	456	64.4
	3/22-24/2005	1.99	<0.50	10	6.70	378	60.3
M-3	4/23/2002	10.55	5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.72	300	66.4
	8/12/2002	5.71	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	6.62	302	62.6
	12/11/2002	8.50	NA	NA	NA	NA	NA
	12/12/2002	NA	NA	NA	7.29	276	64.3
	3/11/2003	10.00	NA	NA	NA	NA	60.6
	3/12/2003	NA	NA	NA	8.90	293	61.7
	6/11/2003	9.60	NA	NA	7.22	310	62.1
	9/10/2003	NA	NA	NA	7.21	315	65.2
	1/20/2004	6.70	NA	NA	NA	NA	NA
	3/30/2004	9.98	NA	NA	NA	NA	NA
	3/31/2004	NA	<1.0	2.5	6.94 / 7.05 *	342	61.3
	7/1/2004	6.32	NA	NA	NA	NA	NA
	7/16/2004	NA	<0.5	0.92	7.18/7.02 *	349	63.9
	9/14-15/2004	1.40	<2.0	0.80	6.95/7.10 *	345	66.2
	12/13-14/2004	6.82	<0.50	1.1	6.82/5.77 *	318	64.7
	3/22-24/2005	8.33	<0.50	2.8	7.07	375	60.8

**Table 3. DO, Nutrients, and Indicator Parameters**

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	Dissolved Oxygen	Phosphate	Nitrate as Nitrate	pH	Conductivity	Temperature
		mg/L				uS/cm	°F
M-4	4/23/2002	5.93	5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.18	391	68.4
	8/12/2002	5.8	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.00	355	65.2
	12/11/2002	2.58	NA	NA	NA	NA	NA
	12/12/2002	NA	NA	NA	6.76	397	64.0
	3/11/2003	4.83	NA	NA	NA	NA	61.3
	3/12/2003	NA	NA	NA	9.26	334	62.4
	6/11/2003	2.20	NA	NA	6.70	319	62.8
	9/10/2003	NA	NA	NA	7.02	451	67.2
	1/20/2004	5.55	NA	NA	NA	NA	NA
	3/30/2004	5.23	NA	NA	NA	NA	NA
	3/31/2004	NA	NA	NA	6.72	373	62.1
	7/1/2004	2.36	NA	NA	NA	NA	NA
	7/16/2004	NA	NA	NA	6.89	468	65.8
	9/14-15/2004	0.88	NA	NA	7.31	703	67.3
12/13-14/2004	3.77	NA	NA	6.80	407	65.3	
3/22-24/2005	4.78	NA	NA	6.52	331	60.8	
M-5	4/23/2002	1.22	<5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.25	356	68.2
	8/12/2002	1.75	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.98	458	65.3
	12/11/2002	2.80	NA	NA	NA	NA	NA
	3/11/2003	1.94	NA	NA	NA	NA	59.9
	3/12/2003	NA	NA	NA	9.53	505	61.7
	6/11/2003	1.16	NA	NA	NA	NA	NA
	9/10/2003	NA	NA	NA	6.73	616	62.8
1/20/2004	4.59	NA	NA	NA	NA	NA	
M-6	4/23/2002	0.16	<5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	6.72	1184	69.3
	8/12/2002	0.45	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.04	937	70.4
	12/11/2002	0.33	NA	NA	NA	NA	NA
	12/12/2002	NA	NA	NA	6.68	770	65.9
	3/11/2003	0.52	NA	NA	NA	NA	62.8
	3/12/2003	NA	NA	NA	7.5	799	64.8
	6/11/2003	0.45	NA	NA	6.63	978	64.6
	9/10/2003	NA	NA	NA	6.7	1053	67.5
	10/30/2003	0.47	NA	NA	NA	NA	NA
	11/14/2003	0.58	NA	NA	NA	NA	NA
	12/4/2003	0.64	NA	NA	NA	NA	67.4
	12/31/2003	7.40	NA	NA	NA	NA	NA
	1/15/2004	8.53	NA	NA	NA	NA	NA
	1/20/2004	7.44	NA	NA	NA	NA	NA
	3/22/2004	9.86	NA	NA	NA	NA	62.9
	3/30/2004	8.21	NA	NA	NA	NA	NA
	3/31/2004	NA	<1.0	26	6.91 / 7.44 *	768	64.2
	7/1/2004	8.46	NA	NA	NA	NA	NA
	7/16/2004	NA	<0.5	7	6.94/7.07 *	778	66.7
	9/14-15/2004	0.70	<2.0	1.2	7.04/7.06 *	804	68.2
	12/13-14/2004	5.59	<0.50	<0.50	6.82/6.76 *	679	68.2
	3/22-24/2005	8.31	<0.50	67	7.06	638	64.4



**Table 3. DO, Nutrients, and Indicator Parameters**

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	Dissolved Oxygen	Phosphate	Nitrate as Nitrate	pH	Conductivity	Temperature
		mg/L				uS/cm	°F
M-7	4/23/2002	0.39	<5	15	NA	NA	NA
	5/14/2002	NA	NA	NA	6.69	1200	67.6
	8/12/2002	0.37	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	6.99	714	69.9
	12/11/2002	0.46	NA	NA	NA	NA	NA
	3/11/2003	0.49	NA	NA	NA	NA	65.1
	3/12/2003	NA	NA	NA	9.17	962	65.8
	6/11/2003	0.63	NA	NA	NA	NA	NA
	10/30/2003	0.53	NA	NA	NA	NA	NA
	11/14/2003	0.55	NA	NA	NA	NA	NA
	12/4/2004	0.52	NA	NA	NA	NA	69.1
	12/31/2003	0.64	NA	NA	NA	NA	NA
	1/15/2004	3.91	NA	NA	NA	NA	NA
	1/20/2004	4.25	NA	NA	NA	NA	NA
	3/22/2004	4.07	NA	NA	NA	NA	62.9
	3/30/2004	3.60	NA	NA	NA	NA	NA
	3/31/2004	NA	<1.0	150	6.66 / 6.99 *	1209	65.5
	7/1/2004	2.84	NA	NA	NA	NA	NA
	7/16/2004	NA	<0.5	94	6.61/6.81 *	1050	68.0
	9/14-15/2004	0.60	<2.0	49	6.63/6.80 *	826	69.1
12/13-14/2004	0.35	<0.50	47	6.65/6.58 *	760	68.7	
3/22-24/2005	0.89	<0.50	65	6.68	822	65.8	
M-8	4/23/2002	0.42	5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.14	633	65.5
	8/12/2002	0.61	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.14	549	65.5
	12/11/2002	NA	NA	NA	NA	NA	NA
	3/11/2003	NA	NA	NA	NA	NA	NA
	3/12/2003	NA	NA	NA	11.62	573	60.8
	6/11/2003	NA	NA	NA	NA	NA	NA

**Notes:**

mg/L = milligrams per liter

uS/cm = microSiemens per centimeter

°F = degrees Fahrenheit

NA = Not analyzed

\* = Where applicable, both the field and laboratory results for pH are reported as follows (field / lab).

Table 4. Analytical Results of Groundwater Monitoring Well Samples

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes	1,2-dibromo ethane (EDB)	1,2-dichloro ethane (EDC)	5 Oxygenates					Tert-amyl methyl ether (TAME)	Tetrachloro ethene (PCE)	Trichloro ethene (TCE)	cis-1,2-dichloro ethene
									Tert-butyl alcohol (TBA)	Methyl tert-butyl ether (MTBE)	Di-isopropyl ether (DIPE)	Ethyl tert-butyl ether (ETBE)					
Water Quality Objectives in ug/L		<50	<1	<42	<29	<17	None	<0.5	<12	<5	None	None	None	None	None	None	
M-1	12/29/1992	16,000	420	200	420	1,400	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	1/27/1993	15,000	400	190	400	1,400	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	12/11/1993	16,000	200	96	450	1,400	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	5/13/1994	19,000	160	64	450	980	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	9/17/1994	160	8.7	2.2	3	5	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	10/26/1994	470	3.7	1.2	0.63	2	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/17/1994	19,000	4.1	1.6	5.5	17	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/18/1995	11,000	300	140	270	680	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/24/1995	11,000	180	53	340	830	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	9/23/1995	1,700	190	23	52	76	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/16/1995	13,000	92	27	310	840	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/23/1996	6,300	110	46	180	360	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/20/1996	9,800	230	100	350	680	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/12/1997	7,900	160	74	210	400	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/26/1997	7,000	97	29	130	300	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/18/1997	3,200	71	39	110	220	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/18/1998	450	7.8	3.6	17	29	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/18/1998	3,000	43	8.3	92	150	NA	NA	<5.0	<0.50	<0.50	<0.50	<0.50	NA	^	^	^
	9/16/1998	2,500	120	35	150	190	NA	NA	NA	<0.50	NA	NA	NA	NA	^	^	^
	12/30/1998	3,400	69	42	97	120	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/18/1999	490	8.8	2.5	13	25	NA	<0.50	<5	<1	<5	<5	<1	NA	^	^	^
	6/16/1999	2,600	100	38	90	130	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	9/23/1999	330	23	5.2	14	20	NA	<0.50	NA	NA	NA	NA	NA	NA	^	^	^
	12/29/1999	640	120	39	29	67	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	8/31/2000	440	31	7.8	22	30	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	10/25/2000	1,000	27	26	8	110	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/20/2000	<50	0.85	0.31	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/15/2001	1,300	25	64	27	100	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	9/18/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	11/13/2001	280	2.3	2	0.62	17	<0.50	<0.50	59	<0.50	<0.50	<0.50	<0.50	<0.50	^	^	^
	2/12/2002	210	5.3	3.9	2.1	10	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	5/14/2002	250	6	15	7.1	115	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	8/9/2002 #	<50	<0.5	<0.5	<0.5	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	^^	^^	^^
	8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	12/12/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	3/12/2003	77	<1.0	1.0	<1.0	3.4	1.5	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	6/11/2003	110	<1.0	1.5	1.0	5.3	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	9/10/2003	<50	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	3/31/2004	86	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	7/16/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	9/15/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	12/14/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	3/24/2005	130	<1.0	<1.0	<1.0	<1.0	4.7	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
M-2	5/13/1994	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	9/17/1994	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	9/17/1994	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	12/17/1994	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	6/24/1995	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	9/23/1995	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	12/16/1995	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	3/23/1996	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	6/20/1996	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	3/12/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	6/26/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	12/17/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	3/17/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	6/19/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	<5.0	<0.50	<0.50	<0.50	<0.50	^	^	^	
	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	<0.50	NA	NA	NA	^	^	^	
	12/30/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	3/18/1999	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.5	<5	<1	<5	<5	<1	^	^	^	
	6/16/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	9/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	<0.5	NA	NA	NA	NA	NA	^	^	^	
	12/23/1999	<50	<0.30	<1.20	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	8/31/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	10/25/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	12/20/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	3/15/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	11/13/2001	<50	<0.30	<0.30	<0.50	<0.50	<0.5	<0.5	<10	<0.50	<0.50	<0.50	<0.50	^	^	^	
	2/12/2002	<50	<0.50	<0.50	<0.50	<1.5	<1.0	<1	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	5/14/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	12/12/2002	Not sampled this event															
	3/12/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	6/11/2003	Not sampled this event															
9/10/2003	Not sampled this event																
3/31/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
7/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^^	^^	^^	
9/15/2004	NA	NA	NA	NA	NA	NA	NA	NA									

Table 4. Analytical Results of Groundwater Monitoring Well Samples

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-dibromoethane (EDB)	1,2-dichloroethane (EDC)	5 Oxygenates					Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-dichloroethene	
									Tert-butyl alcohol (TBA)	Methyl tert-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl tert-butyl ether (ETBE)	Tert-amyl methyl ether (TAME)				
																	ug/L
Water Quality Objectives in ug/L		<50	<1	<42	<29	<17	None	<0.5	<12	<5	None	None	None	None	None	None	
M-3	2/27/1997	14,000	9.4	<4.5	250	80	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	3/13/1997	6,400	7.3	<0.30	120	80	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	6/27/1997	6,700	8.9	<4.5	170	77	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	12/18/1997	4,700	14	<0.9	180	95	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	3/17/1998	2,400	2.7	<1.2	64	67	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	6/18/1998	6,200	7.1	2.1	210	140	NA	NA	<5	0.58	<0.50	<0.50	<0.50	^	^	^	
	9/16/1998	6,800	<0.30	<0.30	260	110	NA	NA	NA	<0.50	NA	NA	NA	NA	^	^	^
	12/30/1998	3,300	6.7	<2.4	130	53	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/18/1999	6,400	0.6	<0.50	170	90	NA	<0.50	<5	<1	<5	<5	<1	^	^	^	^
	6/16/1999	5,700	5.3	<2.4	190	73	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	9/23/1999	1,700	1.5	<1.2	68	11	NA	<5.0	NA	NA	NA	NA	NA	NA	^	^	^
	12/23/1999	2,000	3.6	<1.2	88	17	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	8/31/2000	2,000	1.6	<1.2	72	4.6	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	10/25/2000	390	<0.30	<0.30	3.5	1.9	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/20/2000	2,900	1.3	<0.30	49	3.9	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/15/2001	210	<0.30	<0.30	1.4	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	9/18/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	11/13/2001	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<0.5	<10	<0.50	<0.50	<0.50	<0.50	^	^	^	^
	2/12/2002	<50	<0.5	<0.5	<0.5	<1.5	<1.0	<1	<25	<1.0	<1.0	<1.0	<1.0	^	^	^	^
	5/14/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	12/12/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	1.3
	3/12/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	6/11/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	3/31/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	7/16/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	9/15/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	12/14/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	3/24/2005	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
M-4	3/12/1997	3,700	3.6	<0.30	110	160	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	6/27/1997	820	1.5	<0.30	7.9	20	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	12/20/1997	6,300	<0.9	<0.9	180	280	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	3/18/1998	3,800	3.8	<1.2	37	160	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	6/19/1998	6,100	<12	<12	130	180	NA	NA	<5.3	1.3	<0.53	<0.53	<0.53	^	^	^	
	9/16/1998	2,600	2.5	<0.30	140	300	NA	NA	NA	<0.50	NA	NA	NA	NA	^	^	^
	12/30/1998	1,500	2.3	1.3	48	76	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/18/1999	3,100	0.8	1	100	190	NA	<0.50	<5	<1	<5	<5	<1	^	^	^	^
	6/16/1999	1,100	1.1	<1.2	29	51	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	9/23/1999	100	0.42	<0.30	0.53	<0.50	NA	<0.50	NA	NA	NA	NA	NA	NA	^	^	^
	12/29/1999	880	1.5	<1.2	39	54	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	8/31/2000	220	0.52	<0.30	7.3	7.1	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	10/25/2000	120	0.73	0.87	1.4	5.9	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/20/2000	500	0.52	<0.30	17	14	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/15/2001	<50	<0.30	<0.30	<0.50	0.74	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	9/18/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	11/13/2001	530	<0.30	<0.30	<0.50	3.2	<0.5	<0.5	90	<0.50	<0.50	<0.50	<0.50	^	^	^	^
	2/12/2002	<50	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	5/14/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	12/12/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	5.7 <sup>vc</sup>
	3/12/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	6/11/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	9/10/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	3/31/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	7/16/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	9/15/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	12/14/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
	3/24/2005	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^	^	^
M-5	3/12/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	6/26/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	12/17/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	3/17/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^	
	6/18/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	<5.0	<0.50	<0.50	<0.50	<0.50	^	^	^	
	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	<0.50	NA	NA	NA	NA	^	^	^
	3/18/1999	70	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<5	<1	<5	<5	<1	^	^	^	
	6/16/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	9/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	NA	NA	^	^	^
	8/31/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	10/25/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^

Table 4. Analytical Results of Groundwater Monitoring Well Samples

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-dibromoethane (EDB)	1,2-dichloroethane (EDC)	5 Oxygenates					Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-dichloroethene	
									Tert-butyl alcohol (TBA)	Methyl tert-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl tert-butyl ether (ETBE)	Tert-amyl methyl ether (TAME)				
Water Quality Objectives in ug/L		<50	<1	<42	<29	<17	None	<0.5	ug/L					None	None	None	
M-6	3/12/1997	6,000	52	4.5	280	180	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/26/1997	3,500	21	1.2	110	36	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/18/1997	3,500	61	<0.9	340	83	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/18/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/18/1998	1,800	19	<1.2	63	31	NA	NA	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	^	^	^
	9/16/1998	1700	9.7	<0.30	100	49	NA	NA	NA	<0.50	NA	NA	NA	NA	^	^	^
	12/30/1998	1600	25	1.9	88	41	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/18/1999	780	3	<0.50	0.8	3	NA	<0.50	<5	<1	<5	<5	<5	<1	^	^	^
	6/16/1999	1,900	23	<1.2	88	50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	9/23/1999	1,700	30	<1.2	110	56	NA	<0.50	NA	NA	NA	NA	NA	NA	^	^	^
	12/29/1999	1,500	160	12	190	120	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	8/31/2000	2,000	53	3.5	110	77	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	10/25/2000	1,800	39	<1.2	75	42	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/20/2000	4,200	57	<6.0	160	96	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/15/2001	3,500	49	<1.8	110	62	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/14/2001	3,300	38	<0.65	310	120	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	9/18/2001	1,900	<1.4	<0.57	60	14	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	11/13/2001	1,000	4	<0.30	19	6.6	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	^	^	^
	2/12/2002	1,200	22	2.6	56	50	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	5/14/2002	2,100	11	<1.0	94	54	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	8/13/2002	2,000	7.5	<1.0	<1.0	53	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	12/12/2002	1,700	7	<1.0	66	49.3	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	3/12/2003	4,100	11	2.4	180	177.4	<2.0	<2.0	<50	<2.0	<2.0	<2.0	<2.0	<2.0	^^	^^	^^
	6/11/2003	2,400	7.0	1.0	110	62.7	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	9/10/2003	1,900	3.7	<1.0	74	44.3	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	3/31/2004	890	<1.0	<1.0	17	6.6	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	7/16/2004	850	<1.0	<1.0	9.5	6.4	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	9/15/2004	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	12/14/2004	490	<1.0	<1.0	<1.0	19.3	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
	3/24/2005	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^^	^^	^^
M-7	3/12/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/26/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/17/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/17/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/18/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	^	^	^
	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	<0.50	NA	NA	NA	NA	^	^	^
	3/18/1999	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<5	<1	<5	<5	<1	^	^	^	
	9/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	NA	NA	^	^	^
	8/31/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	10/25/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/20/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/15/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	11/13/2001	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	^	^	^	
	2/12/2002	<50	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
	5/14/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
	8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
	12/12/2002	Not sampled this event															
	3/12/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	5.9	<1.0	<1.0	<1.0	^^	^^	^^	
	6/11/2003	Not sampled this event															
9/10/2003	Not sampled this event																
3/31/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^		
7/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^^	^^	^^	
9/15/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^		
12/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^^	^^	^^	
3/24/2005	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^		
M-8	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	<0.5	NA	NA	NA	NA	NA	^	^	^
	12/30/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/18/1999	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.5	<5	<1	<5	<5	<1	^	^	^	
	6/16/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	9/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	0.65	NA	NA	NA	NA	NA	NA	^	^	^
	12/29/1999	<50	<0.30	<0.30	<0.50	<0.50	<0.50	0.98	NA	NA	NA	NA	NA	NA	10	13	3.3
	8/31/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	10/25/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/20/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/15/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	11/13/2001	<50	<0.30	<0.30	<0.50	<0.50	<0.50	0.64	<10	<0.50	<0.50	<0.50	<0.50	^	^	^	
	2/12/2002	<50	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0	<25**	<1.0	<1.0	<1.0	<1.0	8.6	10	2.6	
	5/14/2002	<50	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	8.3	9.1	2.1	
	8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	10	13	2.4	
	12/12/2002	Not sampled this event															
	3/12/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	1.0	<1.0	<1.0	<1.0	8.4	11	^^	
6/11/2003	Not sampled this event																
9/10/2003	Not sampled this event																
3/31/2004	Sampling no longer required																
SP-9	8/1/2003	7,600	<10	25	77	850	<10	<10	<250	<10	<10	<10	<10	^	^	^	
SP-10	8/1/2003	1,000	4.4	<1.0	46	27	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^	^	^	
SP-11	8/1/2003	2,100	3.4	<1.0	21	125	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^	^	^	
QA/QC	6/24/1995	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
QA/QC	9/23/1995	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA						

Table 4. Analytical Results of Groundwater Monitoring Well Samples

Former Exchange Bank Site  
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-dibromoethane (EDB)	1,2-dichloroethane (EDC)	5 Oxygenates					Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-dichloroethene
									Tert-butyl alcohol (TBA)	Methyl tert-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl tert-butyl ether (ETBE)	Tert-amyl methyl ether (TAME)			
Water Quality Objectives in ug/L		<50	<1	<42	<29	<17	None	<0.5	<12	<5	None	None	None	None	None	None
Trip Blank	6/27/1997	<50	<0.30	0.42	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
QA	6/26/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Drums	3/12/1997	2,700	43	16	100	180	NA	NA	NA	NA	NA	NA	NA	^	^	^
Drum	6/27/1997	<50	0.48	<0.30	<0.50	2	NA	NA	NA	NA	NA	NA	NA	^	^	^
Drum	12/18/1997	92	1.2	0.35	4.6	5	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	<0.50	NA	NA	NA	NA	^	^	^
Trip Blank	12/30/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Drum	3/18/1999	190	<0.50	<0.50	5	4	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	3/18/1999	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	6/16/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	9/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	12/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	8/31/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	10/25/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	12/20/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	3/15/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	6/14/2001	<50	<0.30	0.36	<0.50	0.67	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	9/18/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	9/18/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	2/12/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^^	^^	^^
Trip Blank	5/14/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^^	^^	^^
Trip Blank	8/12/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^^	^^	^^
Trip Blank	12/12/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^^	^^	^^
Trip Blank	3/12/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^^	^^	^^
Trip Blank	6/11/2003	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^^	^^	^^
Trip Blank	9/10/2003	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^^	^^	^^
Trip Blank	3/31/2004	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^^	^^	^^

## Notes:

TPH-G = denotes total petroleum hydrocarbons quantified as gasoline, analyzed by EPA Method 8015.

VC = vinyl chloride detected at 1.4 ug/L

&lt;x = denotes analyte not detected at, or above the detection limit of x.

NA = denotes not analyzed; well M-2 was not accessible on March 18, 1995.

^ = Concentrations of the non target constituents detected prior to 2/12/02 are not included in the table. The detection limit of the non target constituents are not available on the laboratory report.

^^ = Non target constituents not detected. The detection limits are not provided on the laboratory report.

# = Samples were collected immediately prior to re-start after system had been shut down for 51 days.

**Table 5. Operation and Maintenance Data**

Former Exchange Bank Site  
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
10/13/00	SP-1	1 Min	37.2	20	6.4
	SP-2			12	1.6
	SP-3			14	1.2
	SP-4			23	<1.0
	SP-5			13	<1.0
	SP-6			17	1.4
	SP-7			10	2.0
	SP-8			15	<1.0
10/18/00	SP-1	1 Min	54.7	20	1.9
	SP-2			15	3.1
	SP-3			20	3.6
	SP-4			20	<1.0
	SP-5			20	6.6
	SP-6			25	5.8
	SP-7			10	2.4
	SP-8			20	2.0
10/19/00	SP-1	1 Min	67.9	15	5.0
	SP-2			15	3.4
	SP-3			20	4.7
	SP-4			20	1.9
	SP-5			25	6.0
	SP-6			25	5.6
	SP-7			10	2.4
	SP-8			20	3.3
10/20/00	SP-1	1 Min	82.4	15	6.5
	SP-2			15	3.4
	SP-3			20	5.2
	SP-4			20	2.0
	SP-5			25	6.2
	SP-6			25	6.2
	SP-7			10	2.6
	SP-8			20	3.5
10/24/00	SP-1	1 Min	147	10	3.0
	SP-2			15	3.5
	SP-3			15	2.5
	SP-4			20	2.0
	SP-5			20	4.4
	SP-6			20	4.0
	SP-7			10	2.4
	SP-8			20	2.7
10/26/00	SP-1	1 Min	151.1	13	<1.0
	SP-2			15	3.5
	SP-3			15	2.7
	SP-4			20	2.1
	SP-5			20	4.3
	SP-6			20	4.0
	SP-7			10	2.5
	SP-8			20	3.1
10/27/00	SP-1	1 Min	158.3	10	1.4
	SP-2			15	3.8
	SP-3			15	2.8
	SP-4			20	2.4
	SP-5			20	4.3
	SP-6			20	4.0
	SP-7			10	2.6
	SP-8			20	2.9
10/30/00	SP-1	1 Min	174.5	10	1.3
	SP-2			15	3.2
	SP-3			15	2.5
	SP-4			20	2.6
	SP-5			20	1.5
	SP-6			20	3.5
	SP-7			10	2.5
	SP-8			20	3.0

**Table 5. Operation and Maintenance Data**

Former Exchange Bank Site  
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
11/13/00	System Failure. Compressor broke and system was shutdown until arrival of new compressor				
12/07/00	System Restarted				
	SP-1	1 Min	290.2	10	1.7
	SP-2			15	3.3
	SP-3			15	2.6
	SP-4			20	2.2
	SP-5			20	<1.0
	SP-6			20	3.4
	SP-7			10	1.5
	SP-8			20	3.8
12/11/00	SP-1	1 Min	304	10	2.1
	SP-2			15	3.2
	SP-3			15	2.4
	SP-4			20	<1.0
	SP-5			NM	NM
	SP-6			20	2.8
	SP-7			10	1.7
	SP-8			20	2.5
12/20/00	System was shut down from 12-20 to 12-21 for QM event.				
12/21/00	SP-1	1 Min	328	10	<1.0
	SP-2			15	3.3
	SP-3			15	2.5
	SP-4			20	2.8
	SP-5			15	2.0
	SP-6			20	3.0
	SP-7			10	1.7
	SP-8			20	1.6
01/04/01	SP-1	1 Min	373.8	10	2.0
	SP-2			15	3.1
	SP-3			15	2.5
	SP-4			20	2.5
	SP-5			15	2.0
	SP-6			20	2.9
	SP-7			10	1.7
	SP-8			20	NM
01/12/01	SP-1	1 Min	396.4	12	1.2
	SP-2			15	3.0
	SP-3			15	2.5
	SP-4			20	2.5
	SP-5			15	1.9
	SP-6			20	2.6
	SP-7			10	1.4
	SP-8			20	2.1
01/25/01	SP-1	1 Min	441.7	10	2.0
	SP-2			15	2.6
	SP-3			15	2.2
	SP-4			20	2.3
	SP-5			15	1.7
	SP-6			20	2.3
	SP-7			10	1.3
	SP-8			20	2.1
02/16/01	SP-1	1 Min	502	13	1.1
	SP-2			15	3.2
	SP-3			15	2.0
	SP-4			20	1.8
	SP-5			15	1.6
	SP-6			20	3.1
	SP-7			10	1.3
	SP-8			15	3.6
03/26/01	SP-1	1 Min	647.3	13	1.1
	SP-2			15	3.4
	SP-3			15	2.4
	SP-4			20	2.5
	SP-5			20	2.6
	SP-6			20	2.7
	SP-7			12	1.5
	SP-8			17	2.6

**Table 5. Operation and Maintenance Data**

Former Exchange Bank Site  
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
04/10/01	SP-1	1 Min	717	12	1.0
	SP-2			15	3.0
	SP-3			15	2.5
	SP-4			20	2.3
	SP-5			15	2.4
	SP-6			20	2.6
	SP-7			10	1.7
	SP-8			15	2.4
05/04/01	SP-1	2 Min	810	12	1.5
	SP-2			15	3.0
	SP-3			15	2.4
	SP-4			20	2.5
	SP-5			15	2.8
	SP-6			20	2.6
	SP-7			10	2.1
	SP-8			15	2.6
05/07/01	SP-1	2 Min	835.5	12	1.7
	SP-2			15	3.3
	SP-3			20	2.8
	SP-4			20	2.7
	SP-5			15	2.9
	SP-6			20	3.0
	SP-7			10	1.9
	SP-8			20	2.3
05/21/01	SP-1	2 Min	901	12	1.7
	SP-2			15	3.8
	SP-3			15	2.5
	SP-4			20	2.6
	SP-5			15	3.2
	SP-6			20	3.3
	SP-7			10	2.0
	SP-8			15	2.6
06/08/01	SP-1	2 Min	996	12	1.8
	SP-2			15	4.3
	SP-3			15	2.8
	SP-4			20	3.2
	SP-5			15	3.0
	SP-6			20	3.0
	SP-7			10	2.4
	SP-8			15	3.5
07/02/01	SP-1	2 Min	1,130	10	2.2
	SP-2			12	3.8
	SP-3			15	3.4
	SP-4			15	3.4
	SP-5			15	3.2
	SP-6			20	3.0
	SP-7			10	2.2
	SP-8			15	2.8
07/23/01	SP-1	2 Min	1,198	12	2.4
	SP-2			15	5.2
	SP-3			20	3.5
	SP-4			20	3.2
	SP-5			20	4.0
	SP-6			20	4.4
	SP-7			10	2.3
	SP-8			15	4.0
08/08/01	SP-1	2 Min	1,317	12	2.1
	SP-2			15	4.1
	SP-3			15	2.9
	SP-4			20	3.4
	SP-5			15	3.0
	SP-6			20	4.1
	SP-7			10	2.0
	SP-8			15	3.6



**Table 5. Operation and Maintenance Data**

Former Exchange Bank Site  
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
08/22/01	SP-1	2 Min	1,387	10	2.6
	SP-2			15	4.8
	SP-3			15	2.9
	SP-4			20	3.4
	SP-5			15	2.5
	SP-6			20	4.0
	SP-7			10	2.2
	SP-8			15	3.0
10/10/01	SP-1	2 Min	1,657	12	2.8
	SP-2			10	3.0
	SP-3			15	2.5
	SP-4			17	3.0
	SP-5			15	3.8
	SP-6			15	3.8
	SP-7			10	3.0
	SP-8			15	2.6
11/25/01	SP-1	2 Min	1,819	15	2
	SP-2			14	2.2
	SP-3			15	2.4
	SP-4			13	2.6
	SP-5			15	2.6
	SP-6			15	2.4
	SP-7			14	2.4
	SP-8			12	2.4
12/04/01	SP-1	2 Min	1,853.2	15	2.2
	SP-2			14	2.2
	SP-3			15.5	2
	SP-4			15	2.2
	SP-5			15	2.4
	SP-6			15.5	2.4
	SP-7			14	2.4
	SP-8			14	2.3
01/02/02	SP-1	2 Min	1,958.7	16	1.7
	SP-2			14	2.2
	SP-3			15	2
	SP-4			15	2
	SP-5			15	1.8
	SP-6			18	1.8
	SP-7			14	2
	SP-8			15	1.6
01/13/02	SP-1	2 Min	NM	15	1.8
	SP-2			14	2.2
	SP-3			15	2
	SP-4			15	2
	SP-5			15	1.8
	SP-6			17	2
	SP-7			15	2
	SP-8			15	1.8
02/28/02	SP-1	2 Min	2,104.5	15	1.6
	SP-2			12	1.8
	SP-3			15	1.7
	SP-4			15	1.6
	SP-5			13	1.8
	SP-6			15	1.8
	SP-7			13	1.8
	SP-8			10	1.8
03/20/02	SP-1	2 Min	2,143.5	20	2
	SP-2			20	2
	SP-3			20	2
	SP-4			20	2
	SP-5			20	2
	SP-6			20	2
	SP-7			20	2
	SP-8			20	2

**Table 5. Operation and Maintenance Data**

Former Exchange Bank Site  
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
04/03/02	SP-1	2 Min	2,184.9	20	1.8
	SP-2			20	2
	SP-3			20	2
	SP-4			20	2.2
	SP-5			20	2
	SP-6			20	2
	SP-7			20	2
	SP-8			20	2.4
04/23/02	SP-1	2 Min	2,240.4	20	2.0
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.0
	SP-6			20	2.2
	SP-7			20	2.0
	SP-8			20	2.2
05/13/02	SP-1	2 Min	2,306.5	20	2.0
	SP-2			20	2.2
	SP-3			20	2.4
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.4
	SP-7			20	2.2
	SP-8			20	2.2
05/30/02	SP-1	2 Min	2,357.3	20	2.0
	SP-2			19	2.0
	SP-3			20	2.3
	SP-4			19	2.4
	SP-5			20	1.9
	SP-6			19	2.1
	SP-7			20	2.1
	SP-8			19	2.0
06/10/02	SP-1	2 Min	2,390.8	20	2.0
	SP-2			19	2.1
	SP-3			20	2.7
	SP-4			20	2.5
	SP-5			20	2.0
	SP-6			19	2.1
	SP-7			20	2.1
	SP-8			20	0.4
06/19/02	System failure - system shut down. 3/8" nipple from the compressor piston head to the tank had snapped.				
08/09/02	System Restarted				
08/09/02	SP-1	2 Min	2,419.8	20	2.0
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
08/12/02	SP-1	2 Min	2,429.4	20	2.4
	SP-2			19	2.3
	SP-3			20	2.3
	SP-4			20	2.3
	SP-5			20	2.3
	SP-6			20	2.4
	SP-7			20	2.4
	SP-8			18	2.7
System shut down for QM event					
08/13/02	System Restarted				
	SP-1	2 Min	2,429.5	20	2.3
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			19	2.0
	SP-5			20	2.2
	SP-6			19	2.2
	SP-7			20	2.2
	SP-8			20	1.9

**Table 5. Operation and Maintenance Data**

Former Exchange Bank Site  
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
08/28/02	SP-1	2 Min	2,486.3	20	2.1
	SP-2			20	2.1
	SP-3			20	2.1
	SP-4			20	1.8
	SP-5			20	2.2
	SP-6			20	2.1
	SP-7			20	2.1
	SP-8			20	2.2
10/02/02	SP-1	2 Min	2,620.8	20	2.4
	SP-2			20	2.6
	SP-3			20	2.4
	SP-4			20	2.2
	SP-5			20	2.4
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
10/16/02	SP-1	2 Min	2,664.6	20	2.2
	SP-2			20	2.2
	SP-3			20	2.0
	SP-4			20	2.0
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
11/01/02	SP-1	2 Min	2,720.4	20	2.2
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
11/20/02	SP-1	2 Min	2,788.0	20	2.2
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.4
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
12/02/02	SP-1	2 Min	2,831.7	20	2.4
	SP-2			20	2.4
	SP-3			20	2.4
	SP-4			20	2.4
	SP-5			20	2.4
	SP-6			20	2.4
	SP-7			20	2.4
	SP-8		2,831.8	20	2.4
12/11/02	DO Measured in wells and system shutdown for QM event.				
12/12/02	SP-1	2 Min	2,864.9	20	2.4
	SP-2			20	2.4
	SP-3			20	2.4
	SP-4			20	2.4
	SP-5			20	2.4
	SP-6			20	2.4
	SP-7			20	2.4
	SP-8			20	2.4
01/03/03	SP-1	2 Min	2,949.2	20	2.2
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2

**Table 5. Operation and Maintenance Data**

Former Exchange Bank Site  
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
01/14/03	SP-1	2 Min	2,987.4	20	2.4
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
02/06/03	SP-1	2 Min	3,054.9	20	2.4
	SP-2			20	2.4
	SP-3			20	2.4
	SP-4			20	2.4
	SP-5			20	2.4
	SP-6			20	2.4
	SP-7			20	2.4
	SP-8			20	2.4
03/03/03	SP-1	2 Min	3,128.6	20	2.4
	SP-2			20	2.4
	SP-3			20	2.4
	SP-4			20	2.4
	SP-5			20	2.4
	SP-6			20	2.4
	SP-7			20	2.4
	SP-8			20	2.4
04/18/03	SP-1	2 Min	3,250.1	20	2.2
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
05/20/03	SP-1	2 Min	3,336.8	20	2.0
	SP-2			20	2.0
	SP-3			20	2.0
	SP-4			20	2.0
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
06/16/03	SP-1	2 Min	3,404.9	20	2.0
	SP-2			20	2.0
	SP-3			20	2.0
	SP-4			20	2.0
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
06/30/03	SP-1	2 Min	NM	20	2.0
	SP-2			20	2.0
	SP-3			20	2.0
	SP-4			20	2.0
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
07/15/03	SP-1	2 Min	3,446.5	---	---
	SP-2			---	---
	SP-3			---	---
	SP-4			---	---
	SP-5			20	2.2
	SP-6			20	1.8
	SP-7			20	2.0
	SP-8			20	2.4

Note: Sparge Points SP-1 through SP-4 were turned off per the Remedial Action Plan Addendum dated 5/27/03. SP-8 was left on due to the detection of COCs in M-1 on 3/12/03 and 6/11/03.

**Table 5. Operation and Maintenance Data**

Former Exchange Bank Site  
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
07/30/03	SP-1	2 Min	3,446.5	---	---
	SP-2			---	---
	SP-3			---	---
	SP-4			---	---
	SP-5			20	2.2
	SP-6			20	1.8
	SP-7			20	2.0
	SP-8			20	2.4
09/09/03	SP-1	2 Min	3,479.5	---	---
	SP-2			---	---
	SP-3			---	---
	SP-4			---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
Note: Sparge Points SP-9 through SP-11 were installed on July 30, 2003 and placed into service on October 9, 2003.					
10/30/03	SP-4	2 Min	3,551.5	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
	SP-9			25	2.4
	SP-10			25	2.4
	SP-11			25	2.4
11/14/03	SP-4	2 Min	3,583.1	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
	SP-9			20	2.0
	SP-10			20	2.0
	SP-11			20	2.0
12/04/03	SP-4	2 Min	3,626.0	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
	SP-9			20	2.0
	SP-10			20	2.0
	SP-11			20	2.0
12/15/03	SP-4	2 Min	3,654.4	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
	SP-9			20	2.0
	SP-10			20	2.0
	SP-11			20	2.0
12/31/03	SP-4	2 Min	3,680.9	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
	SP-9			20	2.0
	SP-10			20	2.0
	SP-11			20	2.0
01/13/04	SP-4	2 Min	3,712.4	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
	SP-9			20	2.0
	SP-10			20	2.0
	SP-11			20	2.0

**Table 5. Operation and Maintenance Data**

Former Exchange Bank Site  
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
02/11/04	SP-4	2 Min	3,716.2	---	---
	SP-5			20	2.4
	SP-6			20	2.4
	SP-7			20	2.4
	SP-8			20	2.4
	SP-9			20	2.4
	SP-10			20	2.4
	SP-11			20	2.4
02/25/04	SP-4	2 Min	3,712.4	---	---
	SP-5			25	2.6
	SP-6			25	2.6
	SP-7			25	2.6
	SP-8			25	2.6
	SP-9			25	2.6
	SP-10			25	2.6
	SP-11			25	2.6
05/05/04	SP-4	2 Min	3,906.5	---	---
	SP-5			25	2.8
	SP-6			25	2.6
	SP-7			25	2.6
	SP-8			25	2.8
	SP-9			25	3.0
	SP-10			25	3.0
	SP-11			25	3.0
05/25/04	SP-4	2 Min	3,951.6	---	---
	SP-5			25	2.7
	SP-6			25	2.5
	SP-7			25	2.3
	SP-8			25	2.5
	SP-9			25	2.1
	SP-10			25	2.9
	SP-11			25	2.7
Nutrient Injection for SP-9, SP-10, and SP-11.					
07/01/04	SP-4	2 Min	4,021.8	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			NM	NM
	SP-8			25	2.0
	SP-9			25	NM
	SP-10			25	2.2
	SP-11			25	2.2
07/16/04	SP-4	2 Min	4,022.7	---	---
	SP-5			NM	NM
	SP-6			NM	NM
	SP-7			15	1.8
	SP-8			NM	NM
	SP-9			NM	NM
	SP-10			20	2.0
	SP-11			NM	NM
Lowered SP-10 pressure from 25 psi to 20 psi due to silt in M-6					
07/27/04	SP-4			---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			15	2.0
	SP-8			20	2.0
	SP-9			25	2.0
	SP-10			20	2.0
	SP-11			25	2.0
08/24/04	SP-4	2 Min	4,088.1	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			15	2.0
	SP-8			20	2.0
	SP-9			25	2.0
	SP-10			20	2.0
	SP-11			25	2.0

**Table 5. Operation and Maintenance Data**

Former Exchange Bank Site  
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*	
09/14/04	SP-4	2 Min	4,111.6	---	---	
	SP-5			25	2.0	
	SP-6			25	2.0	
	SP-7			15	1.8	
	SP-8			25	2.0	
	SP-9			25	2.0	
	SP-10			20	2.0	
No readings.						
DO measured and system shutdown for QM event.						
09/15/04	System restarted post QM event.					
09/20/04	Pressure valve for SP-11 was turned too low, hence no readings. Increased pressure.					
	SP-4	2 Min	4,118.2	---	---	
	SP-5			25	2.0	
	SP-6			25	2.0	
	SP-7			25	2.0	
	SP-8			25	2.0	
	SP-9			25	2.0	
09/22/04	SP-10			20	2.0	
	SP-11			25	2.2	
	10/06/04	SP-4	2 Min	4,122	---	---
		SP-5			20	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
SP-9				25	2.0	
SP-10				20	2.0	
10/15/04	SP-11			25	2.2	
	SP-4	2 Min	4,145.7	---	---	
	SP-5			25	2.0	
	SP-6			25	2.0	
	SP-7			25	2.0	
	SP-8			25	2.0	
	SP-9			25	2.0	
11/02/05	SP-10			25	2.0	
	SP-11			25	2.0	
	11/17/04	SP-4	2 Min	4,192.9	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
SP-9				25	2.0	
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	SP-4	2 Min	4,218.6	---	---	
	SP-5			25	2.0	
	SP-6			25	2.0	
	SP-7			25	2.0	
	SP-8			25	2.0	
	SP-9			25	2.0	
12/03/04	SP-10			25	2.0	
	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
SP-9				25	2.0	
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	2.0
SP-10				25	2.0	
12/03/04	SP-11			25	2.0	
	12/03/04	SP-4	2 Min	4,246	---	---
		SP-5			25	2.0
		SP-6			25	2.0
		SP-7			25	2.0
		SP-8			25	2.0
		SP-9			25	

**Table 5. Operation and Maintenance Data**

Former Exchange Bank Site  
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
12/14/04	SP-4	2 Min	4,262.6	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
DO measured and system shutdown for QM event.					
12/15/2004	System restarted post QM event.				
01/03/05	SP-4	2 Min	4,298.4	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
01/19/05	SP-4	2 Min	4,327.8	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
02/01/05	SP-4	2 Min	4,351.6	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
03/22/05	DO Measured in wells and system shutdown for QM event.				
03/24/05	SP-4	2 Min	4,444.5	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.4
System restarted post QM event.					

**Notes:**

SP = Sparge Point

psi = Pounds Per Square Inch

A.C.F.M. = Actual Cubic Feet Per Minute

\* = A.C.F.M. readings after 10/10/01 is the setting after adjustment.

--- = Sparge points turned off

DO = Dissolved Oxygen

NM = Not measured

QM = Quarterly Monitoring

Sequencing time of 2 minutes per point is for testing purposes only. Normal operation time is 20 minutes per point.



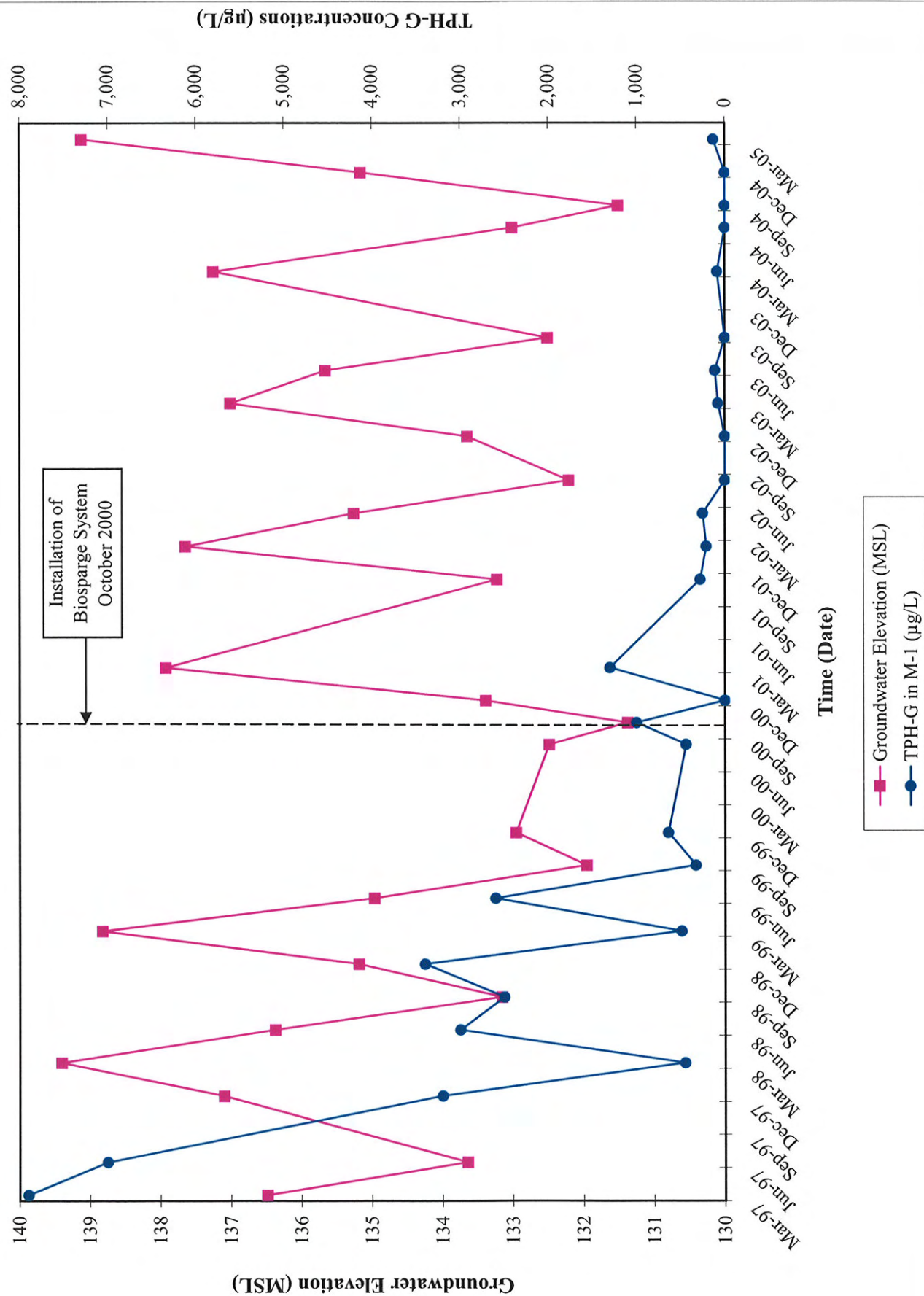
**Table 6. Monitoring Well Sampling Schedule**

Former Exchange Bank Site  
330 Sebastopol Road Santa Rosa, CA

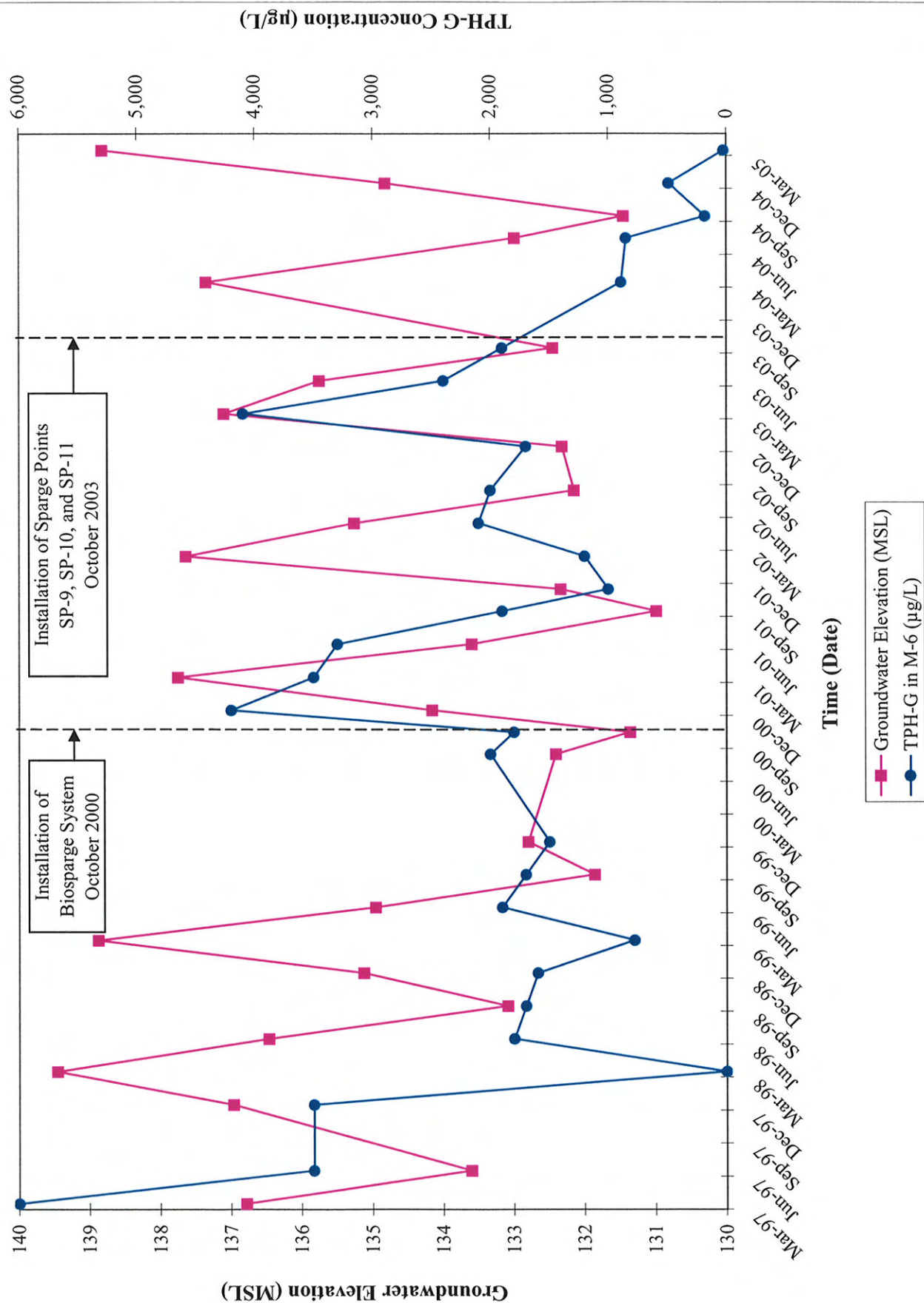
Monitoring Well	Sampling Frequency	Basis for Frequency
M-1	Quarterly	In plume, next to former UST.
M-2	Annually (March)	Historically non-detect.
M-3	Quarterly	Historically contaminated downgradient well.
M-4	Quarterly	Historically contaminated downgradient well.
M-5	Discontinue Sampling. However, one-time nitrate sampling. Need to see if nitrate is on the site or upgradient issue.	Upgradient well with chlorinated solvent plume contaminants.
M-6	Quarterly	Historically contaminated downgradient well.
M-7	Semi-Annually (March and September)	Upgradient well historically non-detect.
M-8	Discontinue Sampling	Downgradient well historically non-detect.
DW-630	Discontinue Sampling	Downgradient well with only chlorinated solvent plume contaminants.
DW-674	Discontinue Sampling	Downgradient well with only chlorinated solvent plume contaminants.
DW-437	Discontinue Sampling	Outside of plume with only chlorinated solvent contaminants.



Graph 1 - TPH-G Concentrations vs. Groundwater Elevations Over Time in M-1



Graph 2 - TPH-G Concentrations vs. Groundwater Elevations Over Time in M-6



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## **Appendix A**

# **Site-Specific Sampling Procedures**

# WINZLER & KELLY CONSULTING ENGINEERS

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## Site-Specific Groundwater Sampling Procedures Former Exchange Bank Data Center 330 Sebastopol Road Santa Rosa, California March 22 and 24, 2005

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### 1. Objective

Collect representative water level data and groundwater samples.

### 2. Background

Based on the analytical results of the previous sampling, field work proceeded from the monitoring wells in which the samples collected had the lowest concentrations of constituents to the wells that had the highest concentrations of constituents.

Water levels were measured to determine the direction and gradient of groundwater flow. Representative groundwater samples from the water-bearing zone were obtained using disposable polyethylene bailers following purging.

### 3. Personnel Required and Responsibilities

Winzler & Kelly Environmental Engineer: Pon Xayasaeng performed groundwater monitoring and sampling activities in accordance with the procedures outlined below.

### 4. Procedures

#### 4a. Biosparge System Shutdown and DO Concentrations

- The membrane on the YSI Model 55 DO meter was checked for the presence of bubbles and wrinkles, neither of which was observed.
- The meter was calibrated in the field prior to collecting measurements.
- Using the calibrated YSI Model 55 DO Meter, DO concentrations were measured in each monitoring well except for M-5 and M-8.
- Following DO measurements, the biosparge system was shutdown to allow groundwater to equilibrate.

#### 4b. Decontamination Procedures

- Usingalconox soap and potable water, all equipment and instruments to be used were decontaminated upon arriving at the site.
- All equipment and instruments were decontaminated after use in each well.
- All equipment and instruments were decontaminated after field activities had been completed.

- Nitrile gloves were worn by sampler at all times and changed after handling equipment and instruments.

#### **4c. Groundwater Elevations**

- Opened all monitoring wells to be measured and removed expandable caps. Allowed wells to equilibrate for a minimum of 30 minutes.
- A water level meter was used to determine the depth-to-groundwater in each monitoring well.
- Recorded depth, time and visual observations regarding well access, condition, security, etc on water level data sheet.
- Decontaminated the water level meter after each use.

#### **4d. Purging**

- Calibrated Ultrameter for conductivity and pH. Temperature calibration is not necessary in the Ultrameter.
- Conductivity was calibrated using KCl-7000 standard solution within its expiration date.
- The calibration for pH included “zeroing” the Ultrameter with a pH 7 buffer solution followed by adjusting the gain with acid and base buffers (4.01 and 10.00).
- Calculated the volume of standing water in each monitoring well using measured depth-to-water and historic depth-to-bottom. Recorded the volume calculated for each well on the Well Sampling Data Sheet.
- Purged monitoring wells using a 12-volt DC 1.5-inch electric submersible pump.
- Monitoring well M-4 was purged with a polyethylene disposable bailer in order to prevent de-watering.
- Obtained readings of field parameters (pH, conductivity, temperature) with meter and visual observations of color/odor/turbidity at each well casing interval throughout the purging process.
- Recorded the time, readings, and visual comments on the Well Sampling Data Sheet.
- Purged each well until field parameters stabilized, not exceeding 7 casing volumes, or until the well de-watered.
- Decontaminated the electric submersible pump after each use.
- All excess water was transferred to 55-gallon drums labeled and secured on site.

#### **4e. Groundwater Sample Collection**

- Groundwater samples were collected by lowering new, disposable, polyethylene, bottom-filling bailers into the well after the water level had recharged to at least 80%.
- When completely full, the bailer was carefully retracted from the well casing.
- The groundwater was transferred from the bailer into 40-ml glass vials preserved with HCl.
- Upon filling, each vial was immediately capped. The vial was checked for air bubbles by inverting and gently tapping the vial.

- All samples were labeled with the following information:  

Sample ID	Date and Time Sample Collected
Location	Sampler's Initials
Project Number	
- Sample information was documented on a chain-of-custody form.
- All samples were placed in an ice chest chilled with ice.
- Upon completion of the sampling activities, each well was closed and secured by replacing the well cap and securing the lock.

## 5. **Equipment Used:**

- Disposable gloves
- Potable water
- Alconox soap
- Containers to hold rinsate water
- Scrub Brushes
- Tools to open wells
- Keys to wells
- Water Level Data Form/pencil
- Well Sampling Data Sheet
- Groundwater Sampling Log form
- Water level meter
- 12-volt DC 1.5-inch electric submersible pump
- UltraMeter
- Containers to hold extracted water (as required)
- Disposable bailers (previously unused)
- Monofilament nylon line (50 lb test)
- Scissors
- Laboratory supplied sample containers (preserved, as required)
- Sample labels
- Ice chest
- Ice
- Labels/indelible marker
- Trash bags
- 55-gallon drums
- Ziploc bags
- Portable 12-V battery



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## **Appendix B**

# **Analytical Laboratory Report**



Analytical Sciences

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Report Date: April 5, 2005

Pon Xayasaeng  
Winzler & Kelly Consulting Engineers  
495 Tesconi Circle, Suite 9  
Santa Rosa, CA 95401-4696

## LABORATORY REPORT

Project Name:                      **Exchange Bank**                      **04220803.001**

Lab Project Number:      **5032502**

This 14 page report of analytical data has been reviewed and approved for release.

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Mark A. Valentini, Ph.D.  
Laboratory Director



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**TPH Gasoline in Water**

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<u>Lab #</u>	<u>Sample ID</u>	<u>Analysis</u>	<u>Result (ug/L)</u>	<u>RDL (ug/L)</u>
29034	M-4	TPH/Gasoline	ND	50

Date Sampled: 03/24/05	Date Analyzed: 03/25/05	QC Batch #: 5397
Date Received: 03/25/05	Method: EPA 5030/8015M	

---

<u>Lab #</u>	<u>Sample ID</u>	<u>Analysis</u>	<u>Result (ug/L)</u>	<u>RDL (ug/L)</u>
29035	M-3	TPH/Gasoline	ND	50

Date Sampled: 03/24/05	Date Analyzed: 03/25/05	QC Batch #: 5397
Date Received: 03/25/05	Method: EPA 5030/8015M	

---

<u>Lab #</u>	<u>Sample ID</u>	<u>Analysis</u>	<u>Result (ug/L)</u>	<u>RDL (ug/L)</u>
29036	M-2	TPH/Gasoline	ND	50

Date Sampled: 03/24/05	Date Analyzed: 03/25/05	QC Batch #: 5397
Date Received: 03/25/05	Method: EPA 5030/8015M	

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Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
29037	M-1	TPH/Gasoline	130	50

Date Sampled: 03/24/05	Date Analyzed: 03/25/05, 0 3/28/05	QC Batch #: 5397
Date Received: 03/25/05	Method: EPA 5030/8015M	

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Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
29038	M-7	TPH/Gasoline	ND	50

Date Sampled: 03/24/05	Date Analyzed: 03/25/05, 0 3/28/05	QC Batch #: 5397
Date Received: 03/25/05	Method: EPA 5030/8015M	

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Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
29039	M-6	TPH/Gasoline	ND	50

Date Sampled: 03/24/05	Date Analyzed: 03/25/05, 0 3/28/05	QC Batch #: 5397
Date Received: 03/25/05	Method: EPA 5030/8015M	

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### Volatile Hydrocarbons by GC/MS in Water

Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29034	M-4	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

#### Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amylm ethyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	20.7	104	70 - 130
toluene-d <sub>8</sub> (20)	19.7	98.5	70 - 130
4-bromofluorobenzene (20)	18.4	92.0	70 - 130

Date Sampled: 03/24/05  
Date Received: 03/25/05

Date Analyzed: 03/25/05  
Method: EPA 8260B

QC Batch #: 5407



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29035	M-3	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

**Oxygenated Gasoline Additives**

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amylm ethyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.4	107	70 – 130
toluene-d <sub>8</sub> (20)	20.1	101	70 – 130
4-bromofluorobenzene (20)	18.2	91.0	70 – 130

Date Sampled: 03/24/05  
Date Received: 03/25/05

Date Analyzed: 03/25/05  
Method: EPA 8260B

QC Batch #: 5407



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29036	M-2	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amylm ethyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.2	106	70 – 130
toluene-d <sub>8</sub> (20)	19.7	98.5	70 – 130
4-bromofluorobenzene (20)	17.8	89.0	70 – 130

Date Sampled: 03/24/05  
Date Received: 03/25/05

Date Analyzed: 03/25/05  
Method: EPA 8260B

QC Batch #: 5407



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29037	M-1	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	3.3	1.0
		o-xylene	1.4	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amylm ethyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.1	109	70 – 130
toluene-d <sub>8</sub> (20)	19.8	99.0	70 – 130
4-bromofluorobenzene (20)	18.2	91.0	70 – 130

Date Sampled: 03/24/05	Date Analyzed: 03/25/05	QC Batch #: 5407
Date Received: 03/25/05	Method: EPA 8260B	





Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29038	M-7	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

**Oxygenated Gasoline Additives**

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amylm ethyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	20.9	105	70 – 130
toluene-d <sub>8</sub> (20)	19.3	96.5	70 – 130
4-bromofluorobenzene (20)	17.9	89.5	70 – 130

Date Sampled: 03/24/05  
Date Received: 03/25/05

Date Analyzed: 03/25/05  
Method: EPA 8260B

QC Batch #: 5407



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29039	M-6	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amylm ethyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	20.7	104	70 – 130
toluene-d <sub>8</sub> (20)	19.5	97.5	70 – 130
4-bromofluorobenzene (20)	18.4	92.0	70 – 130

Date Sampled: 03/24/05  
Date Received: 03/25/05

Date Analyzed: 03/25/05  
Method: EPA 8260B

QC Batch #: 5407



### Nitrate in Water

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
29035	M-3	Nitrate ( $\text{NO}_3^{-1}$ )	2.8	0.50

Date Sampled: 03/24/05	Date Analyzed: 03/30/05	QC Batch #: 5439
Date Received: 03/25/05	Methods: EPA 300 (IC)	

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
29036	M-2	Nitrate ( $\text{NO}_3^{-1}$ )	10	0.50

Date Sampled: 03/24/05	Date Analyzed: 03/30/05	QC Batch #: 5439
Date Received: 03/25/05	Methods: EPA 300 (IC)	

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
29038	M-7	Nitrate ( $\text{NO}_3^{-1}$ )	65	2.0

Date Sampled: 03/24/05	Date Analyzed: 03/31/05	QC Batch #: 5439
Date Received: 03/25/05	Methods: EPA 300 (IC)	

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
29039	M-6	Nitrate ( $\text{NO}_3^{-1}$ )	67	2.0

Date Sampled: 03/24/05	Date Analyzed: 03/31/05	QC Batch #: 5439
Date Received: 03/25/05	Methods: EPA 300 (IC)	



### Phosphate in Water

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
29035	M-3	Phosphate (PO <sub>4</sub> )	ND	0.50

Date Sampled: 03/24/05  
Date Received: 03/25/05

Date Analyzed: 03/30/05  
Methods: EPA 300 (IC)

QC Batch #: 5439

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
29036	M-2	Phosphate (PO <sub>4</sub> )	ND	0.50

Date Sampled: 03/24/05  
Date Received: 03/25/05

Date Analyzed: 03/30/05  
Methods: EPA 300 (IC)

QC Batch #: 5439

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
29038	M-7	Phosphate (PO <sub>4</sub> )	ND	0.50

Date Sampled: 03/24/05  
Date Received: 03/25/05

Date Analyzed: 03/30/05  
Methods: EPA 300 (IC)

QC Batch #: 5439

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
29039	M-6	Phosphate (PO <sub>4</sub> )	ND	0.50

Date Sampled: 03/24/05  
Date Received: 03/25/05

Date Analyzed: 03/30/05  
Methods: EPA 300 (IC)

QC Batch #: 5439



## LABORATORY QUALITY ASSURANCE REPORT

QC Batch #: 5397

Lab Project #: 5032502

Sample ID	Compound	Result (ug/L)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	9.40	10.0	94.0
LCS	Toluene	9.32	10.0	93.2
LCS	Ethyl Benzene	9.16	10.0	91.6
LCS	Xylenes	28.4	30.0	94.8

Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	9.32	10.0	93.2	0.83
LCSD	Toluene	9.28	10.0	92.8	0.40
LCSD	Ethyl Benzene	8.78	10.0	87.8	4.3
LCSD	Xylenes	26.9	30.0	89.6	5.6

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate  
NS = NotS piked; OR = Over Calibration Range; NR = No Recovery



QC Batch #: 5407

Lab Project #: 5032502

Sample ID	Compound Name	Result (ug/L)
MB	1,1-dichloroethene	ND
MB	benzene	ND
MB	trichloroethene	ND
MB	toluene	ND
MB	chlorobenzene	ND

Surrogates	Result( ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	20.2	102	70 – 130
toluene-d <sub>8</sub> (20)	19.6	98.0	70 – 130
4-bromofluorobenzene (20)	19.0	95.0	70 – 130

Sample #	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.
28942	CMS	1,1-dichloroethene	26.8	25.0	107
	CMS	benzene	26.9	25.0	108
	CMS	trichloroethene	25.4	25.0	102
	CMS	toluene	27.4	25.0	110
	CMS	chlorobenzene	26.5	25.0	106

Surrogates	Result( ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.0	105	70 – 130
toluene-d <sub>8</sub> (20)	19.6	98.0	70 – 130
4-bromofluorobenzene (20)	18.7	93.5	70 – 130



Sample #	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.	RPD
28942	CMSD	1,1-dichloroethene	27.3	25.0	109	1.8
	CMSD	benzene	26.6	25.0	106	1.1
	CMSD	trichloroethene	25.4	25.0	102	0.0
	CMSD	toluene	26.9	25.0	108	1.8
	CMSD	chlorobenzene	25.7	25.0	103	3.1

Surrogates	Result( ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.0	105	70 – 130
toluene-d <sub>8</sub> (20)	19.7	98.5	70 – 130
4-bromofluorobenzene (20)	19.1	95.5	70 – 130

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate  
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



# Analytical Sciences

## CHAIN OF CUSTODY

Analytical Sciences  
P.O. Box 750336, Petaluma, CA 94975-0336  
110 Liberty Street, Petaluma, CA 94952  
(707) 769-3128  
Fax (707) 769-8093



### CLIENT INFORMATION

COMPANY NAME: WINZLER & KELLY CONSULTING ENGINEERS

ADDRESS: 495 TESCONI CIRCLE, SUITE 9

SANTA ROSA, CA 95401-4696

CONTACT: Results -> Sonya J. Questions -> Pat

PHONE#: (707) 523-1010

FAX #: (707) 527-8679

LAB PROJECT NUMBER: 5032502

WINZLER & KELLY PROJECT NAME: Exchange Bank

WINZLER & KELLY PROJECT NUMBER: 04228803.001

TURNAROUND TIME (check one)

MOBILE LAB

SAME DAY

48 HOURS

5 DAYS

24 HOURS

72 HOURS

NORMAL

PAGE 1 OF 1

GEOTRACKER EDF: X Y N

GLOBAL ID: TD0097000062

COOLER TEMPERATURE

Blue Ice °C

COC

### ANALYSIS

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	MATRIX	CONT.	PRESV. YES/NO	TPH/CAS/PAH/PCB	TPH DIESEL / MOTOR OIL	EPA 8015M	VOLATILE HYDROCARBONS	EPA 8200B (MULTI)	BTEX & OXYGENATES	OXYGENATED FUEL ADDITIVES	EPA 8200M	CHLORINATED SOLVENTS	EPA 8010 / EPA 8200B	SEMI-VOLATILE HYDROCARBONS	EPA 8210	TRPH / TOG	SM 8202P / EPA 418.1M	PESTICIDES / PCB'S	CAM 17 METALS / FLUOR METALS	TOTAL LEAD	LAB SAMPLE #
1	M-4	3/24/05 12:22	V	4	Yes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	29034
2	M-3	12:24	I	5	Y/N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	29035
3	M-2	12:46	I	5	Y/N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	29036
4	M-1	12:54	I	4	Yes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	29037
5	M-7	13:01	I	5	Y/N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	29038
6	M-6	13:09	I	5	Y/N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	29039
7																							
8																							
9																							
10																							
11																							

### SIGNATURES

SAMPLED BY:

Pat Kuykendall

RELINQUISHED BY:

3/24/05 13:09

RECEIVED BY LABORATORY:

3/25/05 9:30

DATE 3/25/05

DATE

TIME



---

## **Appendix C**

### **GeoTracker Upload Verification**

## Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

### UPLOADING A GEO\_WELL FILE

Processing is complete. No errors were found!  
Your file has been successfully submitted!

**Submittal Title:** Well Measurement, 1st Quarter 2005, Exchange Bank  
**Submittal Date/Time:** 4/11/2005 10:37:36 AM  
**Confirmation Number:** 4681898355

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Logged in as WINZLER (AUTH\_RP)

[CONTACT SITE ADMINISTRATOR.](#)